

October 04, 2022

Derek Ingram
Loureiro Engineering Associates, LLC
11171 Forest Haven Road
Festus, MO 63028
TEL: (314) 609-3065
FAX:



Illinois	100226
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: Huster GWS

WorkOrder: 22091697

Dear Derek Ingram:

TEKLAB, INC received 4 samples on 9/27/2022 15:30:00 for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Aaron Renner
Project Manager
(630)324-6855
arenner@teklabinc.com

Client: Loureiro Engineering Associates, LLC

Work Order: 22091697

Client Project: Huster GWS

Report Date: 04-Oct-22

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Client: Loureiro Engineering Associates, LLC

Work Order: 22091697

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Report Date: 04-Oct-22

Abbr Definition

* Analytes on report marked with an asterisk are not NELAP accredited

CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.

CRQL A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.

DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.

DNI Did not ignite

DUP Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.

ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.

IDPH IL Dept. of Public Health

LCS Laboratory control sample is a sample matrix, free from the analytes of interest,spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.

LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).

MBLK Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.

MDL "The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."

MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).

MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).

MW Molecular weight

NC Data is not acceptable for compliance purposes

ND Not Detected at the Reporting Limit

NELAP NELAP Accredited

PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.

RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.

RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).

SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.

Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.

TIC Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"

TNTC Too numerous to count (> 200 CFU)

Definitions

<http://www.teklabinc.com/>

Client: Loureiro Engineering Associates, LLC

Work Order: 22091697

Client Project: Huster GWS

Report Date: 04-Oct-22

Qualifiers

- | | |
|---|--|
| # - Unknown hydrocarbon | B - Analyte detected in associated Method Blank |
| C - RL shown is a Client Requested Quantitation Limit | E - Value above quantitation range |
| H - Holding times exceeded | I - Associated internal standard was outside method criteria |
| J - Analyte detected below quantitation limits | M - Manual Integration used to determine area response |
| ND - Not Detected at the Reporting Limit | R - RPD outside accepted recovery limits |
| S - Spike Recovery outside recovery limits | T - TIC(Tentatively identified compound) |
| X - Value exceeds Maximum Contaminant Level | |



Case Narrative

<http://www.teklabinc.com/>

Client: Loureiro Engineering Associates, LLC

Work Order: 22091697

Client Project: Huster GWS

Report Date: 04-Oct-22

Cooler Receipt Temp: 16.6 °C

Locations

Collinsville	
Address	5445 Horseshoe Lake Road Collinsville, IL 62234-7425
Phone	(618) 344-1004
Fax	(618) 344-1005
Email	jhriley@teklabinc.com

Collinsville Air	
Address	5445 Horseshoe Lake Road Collinsville, IL 62234-7425
Phone	(618) 344-1004
Fax	(618) 344-1005
Email	EHurley@teklabinc.com

Springfield	
Address	3920 Pintail Dr Springfield, IL 62711-9415
Phone	(217) 698-1004
Fax	(217) 698-1005
Email	KKlostermann@teklabinc.com

Chicago	
Address	1319 Butterfield Rd. Downers Grove, IL 60515
Phone	(630) 324-6855
Fax	
Email	arenner@teklabinc.com

Kansas City	
Address	8421 Nieman Road Lenexa, KS 66214
Phone	(913) 541-1998
Fax	(913) 541-1998
Email	jhriley@teklabinc.com

Accreditations

<http://www.teklabinc.com/>

Client: Loureiro Engineering Associates, LLC

Work Order: 22091697

Client Project: Huster GWS

Report Date: 04-Oct-22

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IIEPA	100226	NELAP	1/31/2023	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2023	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2023	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2023	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2023	Collinsville
Arkansas	ADEQ	88-0966		3/14/2023	Collinsville
Illinois	IDPH	17584		5/31/2023	Collinsville
Iowa	IDNR	430		6/1/2024	Collinsville
Kentucky	UST	0073		1/31/2023	Collinsville
Missouri	MDNR	00930		5/31/2023	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville

Client: Loureiro Engineering Associates, LLC

Work Order: 22091697

Client Project: Huster GWS

Report Date: 04-Oct-22

Lab ID: 22091697-001

Client Sample ID: MW-8

Matrix: GROUNDWATER

Collection Date: 09/27/2022 11:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1,2-Tetrachloroethane	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:00	198220
1,1,1-Trichloroethane	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:00	198220
1,1,2,2-Tetrachloroethane	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:00	198220
1,1,2-Trichloro-1,2,2-trifluoroethane	*	0.4	5.0		ND	µg/L	1	09/29/2022 11:00	198220
1,1,2-Trichloroethane	NELAP	0.1	0.5		ND	µg/L	1	09/29/2022 11:00	198220
1,1-Dichloro-2-propanone	*	2.7	30.0		ND	µg/L	1	09/29/2022 11:00	198220
1,1-Dichloroethane	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:00	198220
1,1-Dichloroethene	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:00	198220
1,1-Dichloropropene	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:00	198220
1,2,3-Trichlorobenzene	NELAP	0.2	2.0		ND	µg/L	1	09/29/2022 11:00	198220
1,2,3-Trichloropropane	NELAP	0.2	2.0		ND	µg/L	1	09/29/2022 11:00	198220
1,2,3-Trimethylbenzene	*	0.1	2.0		ND	µg/L	1	09/29/2022 11:00	198220
1,2,4-Trichlorobenzene	NELAP	0.2	2.0		ND	µg/L	1	09/29/2022 11:00	198220
1,2,4-Trimethylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:00	198220
1,2-Dibromo-3-chloropropane	NELAP	0.3	2.0		ND	µg/L	1	09/29/2022 11:00	198220
1,2-Dibromoethane	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:00	198220
1,2-Dichlorobenzene	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:00	198220
1,2-Dichloroethane	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:00	198220
1,2-Dichloropropane	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:00	198220
1,3,5-Trimethylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:00	198220
1,3-Dichlorobenzene	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:00	198220
1,3-Dichloropropane	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:00	198220
1,4-Dichlorobenzene	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:00	198220
1-Chlorobutane	NELAP	0.1	5.0		ND	µg/L	1	09/29/2022 11:00	198220
2,2-Dichloropropane	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:00	198220
2-Butanone	NELAP	0.4	10.0		38.4	µg/L	1	09/29/2022 11:00	198220
2-Chloroethyl vinyl ether	NELAP	0.4	5.0		ND	µg/L	1	09/29/2022 11:00	198220
2-Chlorotoluene	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:00	198220
2-Hexanone	NELAP	0.4	10	J	9.5	µg/L	1	09/29/2022 11:00	198220
2-Nitropropane	NELAP	1.1	10.0		ND	µg/L	1	09/29/2022 11:00	198220
4-Chlorotoluene	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:00	198220
4-Methyl-2-pentanone	NELAP	0.4	10	J	1.7	µg/L	1	09/29/2022 11:00	198220
Acetone	NELAP	2.4	10.0		127	µg/L	1	09/29/2022 11:00	198220
Acetonitrile	NELAP	1.4	10.0		ND	µg/L	1	09/29/2022 11:00	198220
Acrolein	NELAP	4.4	20.0		ND	µg/L	1	09/29/2022 11:00	198220
Acrylonitrile	NELAP	0.2	5.0		ND	µg/L	1	09/29/2022 11:00	198220
Allyl chloride	NELAP	0.2	5.0		ND	µg/L	1	09/29/2022 11:00	198220
Benzene	NELAP	0.1	0.5	J	0.2	µg/L	1	09/29/2022 11:00	198220
Bromobenzene	NELAP	0.2	2.0		ND	µg/L	1	09/29/2022 11:00	198220
Bromochloromethane	NELAP	0.2	2.0		ND	µg/L	1	09/29/2022 11:00	198220
Bromodichloromethane	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:00	198220
Bromoform	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:00	198220
Bromomethane	NELAP	1.0	5.0		ND	µg/L	1	09/29/2022 11:00	198220
Carbon disulfide	NELAP	0.7	2.0		ND	µg/L	1	09/29/2022 11:00	198220
Carbon tetrachloride	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:00	198220
Chlorobenzene	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:00	198220
Chloroethane	NELAP	0.2	2.0	J	0.3	µg/L	1	09/29/2022 11:00	198220

Client: Loureiro Engineering Associates, LLC

Work Order: 22091697

Client Project: Huster GWS

Report Date: 04-Oct-22

Lab ID: 22091697-001

Client Sample ID: MW-8

Matrix: GROUNDWATER

Collection Date: 09/27/2022 11:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Chloroform	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:00	198220
Chloromethane	NELAP	0.2	5.0		ND	µg/L	1	09/29/2022 11:00	198220
Chloroprene	NELAP	0.1	5.0		ND	µg/L	1	09/29/2022 11:00	198220
cis-1,2-Dichloroethene	NELAP	0.2	2.0		32.5	µg/L	1	09/29/2022 11:00	198220
cis-1,3-Dichloropropene	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:00	198220
cis-1,4-Dichloro-2-butene	NELAP	0.2	2.0		ND	µg/L	1	09/29/2022 11:00	198220
Cyclohexanone	*	3.8	20.0		ND	µg/L	1	09/29/2022 11:00	198220
Dibromochloromethane	NELAP	0.2	2.0		ND	µg/L	1	09/29/2022 11:00	198220
Dibromomethane	NELAP	0.2	2.0		ND	µg/L	1	09/29/2022 11:00	198220
Dichlorodifluoromethane	NELAP	0.2	2.0		ND	µg/L	1	09/29/2022 11:00	198220
Ethyl acetate	NELAP	2.6	10.0		10.5	µg/L	1	09/29/2022 11:00	198220
Ethyl ether	NELAP	0.2	5.0		ND	µg/L	1	09/29/2022 11:00	198220
Ethyl methacrylate	NELAP	0.3	5.0		ND	µg/L	1	09/29/2022 11:00	198220
Ethylbenzene	NELAP	0.1	2.0	J	0.2	µg/L	1	09/29/2022 11:00	198220
Hexachlorobutadiene	NELAP	0.3	5.0		ND	µg/L	1	09/29/2022 11:00	198220
Hexachloroethane	NELAP	0.1	5.0		ND	µg/L	1	09/29/2022 11:00	198220
Iodomethane	NELAP	2.6	5.0		ND	µg/L	1	09/29/2022 11:00	198220
Isopropylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:00	198220
m,p-Xylenes	NELAP	0.2	2.0		ND	µg/L	1	09/29/2022 11:00	198220
Methacrylonitrile	NELAP	0.2	5.0		ND	µg/L	1	09/29/2022 11:00	198220
Methyl Methacrylate	NELAP	0.2	5.0		ND	µg/L	1	09/29/2022 11:00	198220
Methyl tert-butyl ether	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:00	198220
Methylacrylate	NELAP	0.2	5.0		ND	µg/L	1	09/29/2022 11:00	198220
Methylene chloride	NELAP	0.9	2.0		ND	µg/L	1	09/29/2022 11:00	198220
Naphthalene	NELAP	0.3	5.0		ND	µg/L	1	09/29/2022 11:00	198220
n-Butyl acetate	*	0.3	2.0		ND	µg/L	1	09/29/2022 11:00	198220
n-Butylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:00	198220
n-Heptane	*	0.2	5.0		ND	µg/L	1	09/29/2022 11:00	198220
n-Hexane	*	1.4	5.0		ND	µg/L	1	09/29/2022 11:00	198220
Nitrobenzene	NELAP	10.0	50.0		ND	µg/L	1	09/29/2022 11:00	198220
n-Propylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:00	198220
o-Xylene	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:00	198220
Pentachloroethane	NELAP	0.4	5.0		ND	µg/L	1	09/29/2022 11:00	198220
p-Isopropyltoluene	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:00	198220
Propionitrile	NELAP	0.9	10.0		ND	µg/L	1	09/29/2022 11:00	198220
sec-Butylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:00	198220
Styrene	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:00	198220
tert-Butylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:00	198220
Tetrachloroethene	NELAP	0.1	0.5		ND	µg/L	1	09/29/2022 11:00	198220
Tetrahydrofuran	NELAP	0.8	5.0	J	3.8	µg/L	1	09/29/2022 11:00	198220
Toluene	NELAP	0.1	2.0	J	0.1	µg/L	1	09/29/2022 11:00	198220
trans-1,2-Dichloroethene	NELAP	0.1	2.0	J	0.6	µg/L	1	09/29/2022 11:00	198220
trans-1,3-Dichloropropene	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:00	198220
trans-1,4-Dichloro-2-butene	NELAP	0.2	2.0		ND	µg/L	1	09/29/2022 11:00	198220
Trichloroethene	NELAP	0.2	2.0	J	0.2	µg/L	1	09/29/2022 11:00	198220
Trichlorofluoromethane	NELAP	0.1	5.0		ND	µg/L	1	09/29/2022 11:00	198220
Vinyl acetate	NELAP	0.3	5.0		ND	µg/L	1	09/29/2022 11:00	198220

Laboratory Results

<http://www.teklabinc.com/>

Client: Loureiro Engineering Associates, LLC

Work Order: 22091697

Client Project: Huster GWS

Report Date: 04-Oct-22

Lab ID: 22091697-001

Client Sample ID: MW-8

Matrix: GROUNDWATER

Collection Date: 09/27/2022 11:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Vinyl chloride	NELAP	0.1	1.0		15.4	µg/L	1	09/29/2022 11:00	198220
Surr: 1,2-Dichloroethane-d4	*	0	80-120		84.2	%REC	1	09/29/2022 11:00	198220
Surr: 4-Bromofluorobenzene	*	0	80-120		97.3	%REC	1	09/29/2022 11:00	198220
Surr: Dibromofluoromethane	*	0	80-120		97.0	%REC	1	09/29/2022 11:00	198220
Surr: Toluene-d8	*	0	80-120		96.0	%REC	1	09/29/2022 11:00	198220



Laboratory Results

<http://www.teklabinc.com/>

Client: Loureiro Engineering Associates, LLC

Work Order: 22091697

Client Project: Huster GWS

Report Date: 04-Oct-22

Lab ID: 22091697-002

Client Sample ID: MW-13

Matrix: GROUNDWATER

Collection Date: 09/27/2022 11:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1,2-Tetrachloroethane	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:26	198220
1,1,1-Trichloroethane	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:26	198220
1,1,2,2-Tetrachloroethane	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:26	198220
1,1,2-Trichloro-1,2,2-trifluoroethane	*	0.4	5.0		ND	µg/L	1	09/29/2022 11:26	198220
1,1,2-Trichloroethane	NELAP	0.1	0.5		ND	µg/L	1	09/29/2022 11:26	198220
1,1-Dichloro-2-propanone	*	2.7	30.0		ND	µg/L	1	09/29/2022 11:26	198220
1,1-Dichloroethane	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:26	198220
1,1-Dichloroethene	NELAP	0.1	2.0	J	0.2	µg/L	1	09/29/2022 11:26	198220
1,1-Dichloropropene	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:26	198220
1,2,3-Trichlorobenzene	NELAP	0.2	2.0		ND	µg/L	1	09/29/2022 11:26	198220
1,2,3-Trichloropropane	NELAP	0.2	2.0		ND	µg/L	1	09/29/2022 11:26	198220
1,2,3-Trimethylbenzene	*	0.1	2.0		ND	µg/L	1	09/29/2022 11:26	198220
1,2,4-Trichlorobenzene	NELAP	0.2	2.0		ND	µg/L	1	09/29/2022 11:26	198220
1,2,4-Trimethylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:26	198220
1,2-Dibromo-3-chloropropane	NELAP	0.3	2.0		ND	µg/L	1	09/29/2022 11:26	198220
1,2-Dibromoethane	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:26	198220
1,2-Dichlorobenzene	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:26	198220
1,2-Dichloroethane	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:26	198220
1,2-Dichloropropane	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:26	198220
1,3,5-Trimethylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:26	198220
1,3-Dichlorobenzene	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:26	198220
1,3-Dichloropropane	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:26	198220
1,4-Dichlorobenzene	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:26	198220
1-Chlorobutane	NELAP	0.1	5.0		ND	µg/L	1	09/29/2022 11:26	198220
2,2-Dichloropropane	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:26	198220
2-Butanone	NELAP	0.4	10	J	8.8	µg/L	1	09/29/2022 11:26	198220
2-Chloroethyl vinyl ether	NELAP	0.4	5.0		ND	µg/L	1	09/29/2022 11:26	198220
2-Chlorotoluene	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:26	198220
2-Hexanone	NELAP	0.4	10	J	2.1	µg/L	1	09/29/2022 11:26	198220
2-Nitropropane	NELAP	1.1	10.0		ND	µg/L	1	09/29/2022 11:26	198220
4-Chlorotoluene	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:26	198220
4-Methyl-2-pentanone	NELAP	0.4	10.0		ND	µg/L	1	09/29/2022 11:26	198220
Acetone	NELAP	2.4	10.0		12.9	µg/L	1	09/29/2022 11:26	198220
Acetonitrile	NELAP	1.4	10.0		ND	µg/L	1	09/29/2022 11:26	198220
Acrolein	NELAP	4.4	20.0		ND	µg/L	1	09/29/2022 11:26	198220
Acrylonitrile	NELAP	0.2	5.0		ND	µg/L	1	09/29/2022 11:26	198220
Allyl chloride	NELAP	0.2	5.0		ND	µg/L	1	09/29/2022 11:26	198220
Benzene	NELAP	0.1	0.5		ND	µg/L	1	09/29/2022 11:26	198220
Bromobenzene	NELAP	0.2	2.0		ND	µg/L	1	09/29/2022 11:26	198220
Bromochloromethane	NELAP	0.2	2.0		ND	µg/L	1	09/29/2022 11:26	198220
Bromodichloromethane	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:26	198220
Bromoform	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:26	198220
Bromomethane	NELAP	1.0	5.0		ND	µg/L	1	09/29/2022 11:26	198220
Carbon disulfide	NELAP	0.7	2.0	J	1.1	µg/L	1	09/29/2022 11:26	198220
Carbon tetrachloride	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:26	198220
Chlorobenzene	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:26	198220
Chloroethane	NELAP	0.2	2.0		ND	µg/L	1	09/29/2022 11:26	198220

Laboratory Results

<http://www.teklabinc.com/>
Client: Loureiro Engineering Associates, LLC

Work Order: 22091697

Client Project: Huster GWS

Report Date: 04-Oct-22

Lab ID: 22091697-002

Client Sample ID: MW-13

Matrix: GROUNDWATER

Collection Date: 09/27/2022 11:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Chloroform	NELAP	0.1	2.0	J	0.1	µg/L	1	09/29/2022 11:26	198220
Chloromethane	NELAP	0.2	5.0		ND	µg/L	1	09/29/2022 11:26	198220
Chloroprene	NELAP	0.1	5.0		ND	µg/L	1	09/29/2022 11:26	198220
cis-1,2-Dichloroethene	NELAP	0.2	2.0		97.0	µg/L	1	09/29/2022 11:26	198220
cis-1,3-Dichloropropene	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:26	198220
cis-1,4-Dichloro-2-butene	NELAP	0.2	2.0		ND	µg/L	1	09/29/2022 11:26	198220
Cyclohexanone	*	3.8	20.0		ND	µg/L	1	09/29/2022 11:26	198220
Dibromochloromethane	NELAP	0.2	2.0		ND	µg/L	1	09/29/2022 11:26	198220
Dibromomethane	NELAP	0.2	2.0		ND	µg/L	1	09/29/2022 11:26	198220
Dichlorodifluoromethane	NELAP	0.2	2.0		ND	µg/L	1	09/29/2022 11:26	198220
Ethyl acetate	NELAP	2.6	10.0		ND	µg/L	1	09/29/2022 11:26	198220
Ethyl ether	NELAP	0.2	5.0		ND	µg/L	1	09/29/2022 11:26	198220
Ethyl methacrylate	NELAP	0.3	5.0		ND	µg/L	1	09/29/2022 11:26	198220
Ethylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:26	198220
Hexachlorobutadiene	NELAP	0.3	5.0		ND	µg/L	1	09/29/2022 11:26	198220
Hexachloroethane	NELAP	0.1	5.0		ND	µg/L	1	09/29/2022 11:26	198220
Iodomethane	NELAP	2.6	5.0		ND	µg/L	1	09/29/2022 11:26	198220
Isopropylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:26	198220
m,p-Xylenes	NELAP	0.2	2.0		ND	µg/L	1	09/29/2022 11:26	198220
Methacrylonitrile	NELAP	0.2	5.0		ND	µg/L	1	09/29/2022 11:26	198220
Methyl Methacrylate	NELAP	0.2	5.0		ND	µg/L	1	09/29/2022 11:26	198220
Methyl tert-butyl ether	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:26	198220
Methylacrylate	NELAP	0.2	5.0		ND	µg/L	1	09/29/2022 11:26	198220
Methylene chloride	NELAP	0.9	2.0		ND	µg/L	1	09/29/2022 11:26	198220
Naphthalene	NELAP	0.3	5.0		ND	µg/L	1	09/29/2022 11:26	198220
n-Butyl acetate	*	0.3	2.0	J	0.3	µg/L	1	09/29/2022 11:26	198220
n-Butylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:26	198220
n-Heptane	*	0.2	5.0		ND	µg/L	1	09/29/2022 11:26	198220
n-Hexane	*	1.4	5.0		ND	µg/L	1	09/29/2022 11:26	198220
Nitrobenzene	NELAP	10.0	50.0		ND	µg/L	1	09/29/2022 11:26	198220
n-Propylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:26	198220
o-Xylene	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:26	198220
Pentachloroethene	NELAP	0.4	5.0		ND	µg/L	1	09/29/2022 11:26	198220
p-Isopropyltoluene	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:26	198220
Propionitrile	NELAP	0.9	10.0		ND	µg/L	1	09/29/2022 11:26	198220
sec-Butylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:26	198220
Styrene	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:26	198220
tert-Butylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:26	198220
Tetrachloroethene	NELAP	0.1	0.5		ND	µg/L	1	09/29/2022 11:26	198220
Tetrahydrofuran	NELAP	0.8	5.0	J	1.3	µg/L	1	09/29/2022 11:26	198220
Toluene	NELAP	0.1	2.0	J	0.4	µg/L	1	09/29/2022 11:26	198220
trans-1,2-Dichloroethene	NELAP	0.1	2.0		3.9	µg/L	1	09/29/2022 11:26	198220
trans-1,3-Dichloropropene	NELAP	0.1	2.0		ND	µg/L	1	09/29/2022 11:26	198220
trans-1,4-Dichloro-2-butene	NELAP	0.2	2.0		ND	µg/L	1	09/29/2022 11:26	198220
Trichloroethene	NELAP	0.2	2.0		ND	µg/L	1	09/29/2022 11:26	198220
Trichlorofluoromethane	NELAP	0.1	5.0		ND	µg/L	1	09/29/2022 11:26	198220
Vinyl acetate	NELAP	0.3	5.0		ND	µg/L	1	09/29/2022 11:26	198220

Laboratory Results

<http://www.teklabinc.com/>

Client: Loureiro Engineering Associates, LLC

Work Order: 22091697

Client Project: Huster GWS

Report Date: 04-Oct-22

Lab ID: 22091697-002

Client Sample ID: MW-13

Matrix: GROUNDWATER

Collection Date: 09/27/2022 11:40

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Vinyl chloride	NELAP	10.0	100		223	µg/L	100	09/28/2022 15:01	198176
Surr: 1,2-Dichloroethane-d4	*	0	80-120		85.9	%REC	1	09/29/2022 11:26	198220
Surr: 4-Bromofluorobenzene	*	0	80-120		98.5	%REC	1	09/29/2022 11:26	198220
Surr: Dibromofluoromethane	*	0	80-120		97.9	%REC	1	09/29/2022 11:26	198220
Surr: Toluene-d8	*	0	80-120		96.0	%REC	1	09/29/2022 11:26	198220

Client: Loureiro Engineering Associates, LLC

Work Order: 22091697

Client Project: Huster GWS

Report Date: 04-Oct-22

Lab ID: 22091697-003

Client Sample ID: MW-11

Matrix: GROUNDWATER

Collection Date: 09/27/2022 12:20

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1,2-Tetrachloroethane	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:27	198176
1,1,1-Trichloroethane	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:27	198176
1,1,2,2-Tetrachloroethane	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:27	198176
1,1,2-Trichloro-1,2,2-trifluoroethane	*	0.4	5.0		ND	µg/L	1	09/28/2022 15:27	198176
1,1,2-Trichloroethane	NELAP	0.1	0.5		ND	µg/L	1	09/28/2022 15:27	198176
1,1-Dichloro-2-propanone	*	2.7	30.0		ND	µg/L	1	09/28/2022 15:27	198176
1,1-Dichloroethane	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:27	198176
1,1-Dichloroethene	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:27	198176
1,1-Dichloropropene	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:27	198176
1,2,3-Trichlorobenzene	NELAP	0.2	2.0		ND	µg/L	1	09/28/2022 15:27	198176
1,2,3-Trichloropropane	NELAP	0.2	2.0		ND	µg/L	1	09/28/2022 15:27	198176
1,2,3-Trimethylbenzene	*	0.1	2.0		ND	µg/L	1	09/28/2022 15:27	198176
1,2,4-Trichlorobenzene	NELAP	0.2	2.0		ND	µg/L	1	09/28/2022 15:27	198176
1,2,4-Trimethylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:27	198176
1,2-Dibromo-3-chloropropane	NELAP	0.3	2.0		ND	µg/L	1	09/28/2022 15:27	198176
1,2-Dibromoethane	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:27	198176
1,2-Dichlorobenzene	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:27	198176
1,2-Dichloroethane	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:27	198176
1,2-Dichloropropane	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:27	198176
1,3,5-Trimethylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:27	198176
1,3-Dichlorobenzene	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:27	198176
1,3-Dichloropropane	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:27	198176
1,4-Dichlorobenzene	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:27	198176
1-Chlorobutane	NELAP	0.1	5.0		ND	µg/L	1	09/28/2022 15:27	198176
2,2-Dichloropropane	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:27	198176
2-Butanone	NELAP	0.4	10	J	4.6	µg/L	1	09/28/2022 15:27	198176
2-Chloroethyl vinyl ether	NELAP	0.4	5.0		ND	µg/L	1	09/28/2022 15:27	198176
2-Chlorotoluene	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:27	198176
2-Hexanone	NELAP	0.4	10	J	2.1	µg/L	1	09/28/2022 15:27	198176
2-Nitropropane	NELAP	1.1	10.0		ND	µg/L	1	09/28/2022 15:27	198176
4-Chlorotoluene	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:27	198176
4-Methyl-2-pentanone	NELAP	0.4	10	J	1.2	µg/L	1	09/28/2022 15:27	198176
Acetone	NELAP	2.4	10.0		213	µg/L	1	09/28/2022 15:27	198176
Acetonitrile	NELAP	1.4	10.0		ND	µg/L	1	09/28/2022 15:27	198176
Acrolein	NELAP	4.4	20.0		ND	µg/L	1	09/28/2022 15:27	198176
Acrylonitrile	NELAP	0.2	5.0		ND	µg/L	1	09/28/2022 15:27	198176
Allyl chloride	NELAP	0.2	5.0		ND	µg/L	1	09/28/2022 15:27	198176
Benzene	NELAP	0.1	0.5		ND	µg/L	1	09/28/2022 15:27	198176
Bromobenzene	NELAP	0.2	2.0		ND	µg/L	1	09/28/2022 15:27	198176
Bromochloromethane	NELAP	0.2	2.0		ND	µg/L	1	09/28/2022 15:27	198176
Bromodichloromethane	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:27	198176
Bromoform	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:27	198176
Bromomethane	NELAP	1.0	5.0		ND	µg/L	1	09/28/2022 15:27	198176
Carbon disulfide	NELAP	0.7	2.0		ND	µg/L	1	09/28/2022 15:27	198176
Carbon tetrachloride	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:27	198176
Chlorobenzene	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:27	198176
Chloroethane	NELAP	0.2	2.0		ND	µg/L	1	09/28/2022 15:27	198176

Laboratory Results

<http://www.teklabinc.com/>

Client: Loureiro Engineering Associates, LLC

Work Order: 22091697

Client Project: Huster GWS

Report Date: 04-Oct-22

Lab ID: 22091697-003

Client Sample ID: MW-11

Matrix: GROUNDWATER

Collection Date: 09/27/2022 12:20

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Chloroform	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:27	198176
Chloromethane	NELAP	0.2	5.0		ND	µg/L	1	09/28/2022 15:27	198176
Chloroprene	NELAP	0.1	5.0		ND	µg/L	1	09/28/2022 15:27	198176
cis-1,2-Dichloroethene	NELAP	0.2	2.0		5.9	µg/L	1	09/28/2022 15:27	198176
cis-1,3-Dichloropropene	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:27	198176
cis-1,4-Dichloro-2-butene	NELAP	0.2	2.0		ND	µg/L	1	09/28/2022 15:27	198176
Cyclohexanone	*	3.8	20.0		ND	µg/L	1	09/28/2022 15:27	198176
Dibromochloromethane	NELAP	0.2	2.0		ND	µg/L	1	09/28/2022 15:27	198176
Dibromomethane	NELAP	0.2	2.0		ND	µg/L	1	09/28/2022 15:27	198176
Dichlorodifluoromethane	NELAP	0.2	2.0		ND	µg/L	1	09/28/2022 15:27	198176
Ethyl acetate	NELAP	2.6	10.0		ND	µg/L	1	09/28/2022 15:27	198176
Ethyl ether	NELAP	0.2	5.0		ND	µg/L	1	09/28/2022 15:27	198176
Ethyl methacrylate	NELAP	0.3	5.0		ND	µg/L	1	09/28/2022 15:27	198176
Ethylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:27	198176
Hexachlorobutadiene	NELAP	0.3	5.0		ND	µg/L	1	09/28/2022 15:27	198176
Hexachloroethane	NELAP	0.1	5.0		ND	µg/L	1	09/28/2022 15:27	198176
Iodomethane	NELAP	2.6	5.0		ND	µg/L	1	09/28/2022 15:27	198176
Isopropylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:27	198176
m,p-Xylenes	NELAP	0.2	2.0		ND	µg/L	1	09/28/2022 15:27	198176
Methacrylonitrile	NELAP	0.2	5.0		ND	µg/L	1	09/28/2022 15:27	198176
Methyl Methacrylate	NELAP	0.2	5.0		ND	µg/L	1	09/28/2022 15:27	198176
Methyl tert-butyl ether	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:27	198176
Methylacrylate	NELAP	0.2	5.0		ND	µg/L	1	09/28/2022 15:27	198176
Methylene chloride	NELAP	0.9	2.0		ND	µg/L	1	09/28/2022 15:27	198176
Naphthalene	NELAP	0.3	5.0	B	ND	µg/L	1	09/28/2022 15:27	198176
n-Butyl acetate	*	0.3	2.0		ND	µg/L	1	09/28/2022 15:27	198176
n-Butylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:27	198176
n-Heptane	*	0.2	5.0		ND	µg/L	1	09/28/2022 15:27	198176
n-Hexane	*	1.4	5.0		ND	µg/L	1	09/28/2022 15:27	198176
Nitrobenzene	NELAP	10.0	50.0		ND	µg/L	1	09/28/2022 15:27	198176
n-Propylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:27	198176
o-Xylene	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:27	198176
Pentachloroethene	NELAP	0.4	5.0		ND	µg/L	1	09/28/2022 15:27	198176
p-Isopropyltoluene	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:27	198176
Propionitrile	NELAP	0.9	10.0		ND	µg/L	1	09/28/2022 15:27	198176
sec-Butylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:27	198176
Styrene	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:27	198176
tert-Butylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:27	198176
Tetrachloroethene	NELAP	0.1	0.5		ND	µg/L	1	09/28/2022 15:27	198176
Tetrahydrofuran	NELAP	0.8	5.0		ND	µg/L	1	09/28/2022 15:27	198176
Toluene	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:27	198176
trans-1,2-Dichloroethene	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:27	198176
trans-1,3-Dichloropropene	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:27	198176
trans-1,4-Dichloro-2-butene	NELAP	0.2	2.0		ND	µg/L	1	09/28/2022 15:27	198176
Trichloroethene	NELAP	0.2	2.0		ND	µg/L	1	09/28/2022 15:27	198176
Trichlorofluoromethane	NELAP	0.1	5.0		ND	µg/L	1	09/28/2022 15:27	198176
Vinyl acetate	NELAP	0.3	5.0		ND	µg/L	1	09/28/2022 15:27	198176

Laboratory Results

<http://www.teklabinc.com/>

Client: Loureiro Engineering Associates, LLC

Work Order: 22091697

Client Project: Huster GWS

Report Date: 04-Oct-22

Lab ID: 22091697-003

Client Sample ID: MW-11

Matrix: GROUNDWATER

Collection Date: 09/27/2022 12:20

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Vinyl chloride	NELAP	0.1	1.0	J	0.5	µg/L	1	09/28/2022 15:27	198176
Surr: 1,2-Dichloroethane-d4	*	0	80-120		85.0	%REC	1	09/28/2022 15:27	198176
Surr: 4-Bromofluorobenzene	*	0	80-120		97.9	%REC	1	09/28/2022 15:27	198176
Surr: Dibromofluoromethane	*	0	80-120		97.4	%REC	1	09/28/2022 15:27	198176
Surr: Toluene-d8	*	0	80-120		96.2	%REC	1	09/28/2022 15:27	198176

Naphthalene was detected in the MBLK at a level between the MDL and the RL. Sample result is less than the RL. Data is reportable.

Laboratory Results

<http://www.teklabinc.com/>
Client: Loureiro Engineering Associates, LLC

Work Order: 22091697

Client Project: Huster GWS

Report Date: 04-Oct-22

Lab ID: 22091697-004

Client Sample ID: MW-12

Matrix: GROUNDWATER

Collection Date: 09/27/2022 13:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1,2-Tetrachloroethane	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:52	198176
1,1,1-Trichloroethane	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:52	198176
1,1,2,2-Tetrachloroethane	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:52	198176
1,1,2-Trichloro-1,2,2-trifluoroethane	*	0.4	5.0		ND	µg/L	1	09/28/2022 15:52	198176
1,1,2-Trichloroethane	NELAP	0.1	0.5		ND	µg/L	1	09/28/2022 15:52	198176
1,1-Dichloro-2-propanone	*	2.7	30.0		ND	µg/L	1	09/28/2022 15:52	198176
1,1-Dichloroethane	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:52	198176
1,1-Dichloroethene	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:52	198176
1,1-Dichloropropene	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:52	198176
1,2,3-Trichlorobenzene	NELAP	0.2	2.0		ND	µg/L	1	09/28/2022 15:52	198176
1,2,3-Trichloropropane	NELAP	0.2	2.0		ND	µg/L	1	09/28/2022 15:52	198176
1,2,3-Trimethylbenzene	*	0.1	2.0		ND	µg/L	1	09/28/2022 15:52	198176
1,2,4-Trichlorobenzene	NELAP	0.2	2.0		ND	µg/L	1	09/28/2022 15:52	198176
1,2,4-Trimethylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:52	198176
1,2-Dibromo-3-chloropropane	NELAP	0.3	2.0		ND	µg/L	1	09/28/2022 15:52	198176
1,2-Dibromoethane	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:52	198176
1,2-Dichlorobenzene	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:52	198176
1,2-Dichloroethane	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:52	198176
1,2-Dichloropropane	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:52	198176
1,3,5-Trimethylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:52	198176
1,3-Dichlorobenzene	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:52	198176
1,3-Dichloropropane	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:52	198176
1,4-Dichlorobenzene	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:52	198176
1-Chlorobutane	NELAP	0.1	5.0		ND	µg/L	1	09/28/2022 15:52	198176
2,2-Dichloropropane	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:52	198176
2-Butanone	NELAP	0.4	10.0		16.8	µg/L	1	09/28/2022 15:52	198176
2-Chloroethyl vinyl ether	NELAP	0.4	5.0		ND	µg/L	1	09/28/2022 15:52	198176
2-Chlorotoluene	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:52	198176
2-Hexanone	NELAP	0.4	10.0		11.8	µg/L	1	09/28/2022 15:52	198176
2-Nitropropane	NELAP	1.1	10.0		ND	µg/L	1	09/28/2022 15:52	198176
4-Chlorotoluene	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:52	198176
4-Methyl-2-pentanone	NELAP	0.4	10	J	5.6	µg/L	1	09/28/2022 15:52	198176
Acetone	NELAP	24.4	100		1130	µg/L	10	09/29/2022 11:52	198220
Acetonitrile	NELAP	1.4	10.0		ND	µg/L	1	09/28/2022 15:52	198176
Acrolein	NELAP	4.4	20.0		ND	µg/L	1	09/28/2022 15:52	198176
Acrylonitrile	NELAP	0.2	5.0		ND	µg/L	1	09/28/2022 15:52	198176
Allyl chloride	NELAP	0.2	5.0		ND	µg/L	1	09/28/2022 15:52	198176
Benzene	NELAP	0.1	0.5		ND	µg/L	1	09/28/2022 15:52	198176
Bromobenzene	NELAP	0.2	2.0		ND	µg/L	1	09/28/2022 15:52	198176
Bromoform	NELAP	0.2	2.0		ND	µg/L	1	09/28/2022 15:52	198176
Bromochloromethane	NELAP	0.2	2.0		ND	µg/L	1	09/28/2022 15:52	198176
Bromodichloromethane	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:52	198176
Bromoform	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:52	198176
Bromomethane	NELAP	1.0	5.0		ND	µg/L	1	09/28/2022 15:52	198176
Carbon disulfide	NELAP	0.7	2.0		ND	µg/L	1	09/28/2022 15:52	198176
Carbon tetrachloride	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:52	198176
Chlorobenzene	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:52	198176
Chloroethane	NELAP	0.2	2.0		ND	µg/L	1	09/28/2022 15:52	198176



Laboratory Results

<http://www.teklabinc.com/>

Client: Loureiro Engineering Associates, LLC

Work Order: 22091697

Client Project: Huster GWS

Report Date: 04-Oct-22

Lab ID: 22091697-004

Client Sample ID: MW-12

Matrix: GROUNDWATER

Collection Date: 09/27/2022 13:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Chloroform	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:52	198176
Chloromethane	NELAP	0.2	5.0		ND	µg/L	1	09/28/2022 15:52	198176
Chloroprene	NELAP	0.1	5.0		ND	µg/L	1	09/28/2022 15:52	198176
cis-1,2-Dichloroethene	NELAP	0.2	2.0		37.9	µg/L	1	09/28/2022 15:52	198176
cis-1,3-Dichloropropene	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:52	198176
cis-1,4-Dichloro-2-butene	NELAP	0.2	2.0		ND	µg/L	1	09/28/2022 15:52	198176
Cyclohexanone	*	3.8	20.0		ND	µg/L	1	09/28/2022 15:52	198176
Dibromochloromethane	NELAP	0.2	2.0		ND	µg/L	1	09/28/2022 15:52	198176
Dibromomethane	NELAP	0.2	2.0		ND	µg/L	1	09/28/2022 15:52	198176
Dichlorodifluoromethane	NELAP	0.2	2.0		ND	µg/L	1	09/28/2022 15:52	198176
Ethyl acetate	NELAP	2.6	10.0		ND	µg/L	1	09/28/2022 15:52	198176
Ethyl ether	NELAP	0.2	5.0		ND	µg/L	1	09/28/2022 15:52	198176
Ethyl methacrylate	NELAP	0.3	5.0		ND	µg/L	1	09/28/2022 15:52	198176
Ethylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:52	198176
Hexachlorobutadiene	NELAP	0.3	5.0		ND	µg/L	1	09/28/2022 15:52	198176
Hexachloroethane	NELAP	0.1	5.0		ND	µg/L	1	09/28/2022 15:52	198176
Iodomethane	NELAP	2.6	5.0		ND	µg/L	1	09/28/2022 15:52	198176
Isopropylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:52	198176
m,p-Xylenes	NELAP	0.2	2.0		ND	µg/L	1	09/28/2022 15:52	198176
Methacrylonitrile	NELAP	0.2	5.0		ND	µg/L	1	09/28/2022 15:52	198176
Methyl Methacrylate	NELAP	0.2	5.0		ND	µg/L	1	09/28/2022 15:52	198176
Methyl tert-butyl ether	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:52	198176
Methylacrylate	NELAP	0.2	5.0		ND	µg/L	1	09/28/2022 15:52	198176
Methylene chloride	NELAP	0.9	2.0		ND	µg/L	1	09/28/2022 15:52	198176
Naphthalene	NELAP	0.3	5.0	B	ND	µg/L	1	09/28/2022 15:52	198176
n-Butyl acetate	*	0.3	2.0		ND	µg/L	1	09/28/2022 15:52	198176
n-Butylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:52	198176
n-Heptane	*	0.2	5.0		ND	µg/L	1	09/28/2022 15:52	198176
n-Hexane	*	1.4	5.0		ND	µg/L	1	09/28/2022 15:52	198176
Nitrobenzene	NELAP	10.0	50.0		ND	µg/L	1	09/28/2022 15:52	198176
n-Propylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:52	198176
o-Xylene	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:52	198176
Pentachloroethane	NELAP	0.4	5.0		ND	µg/L	1	09/28/2022 15:52	198176
p-Isopropyltoluene	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:52	198176
Propionitrile	NELAP	0.9	10.0		ND	µg/L	1	09/28/2022 15:52	198176
sec-Butylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:52	198176
Styrene	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:52	198176
tert-Butylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:52	198176
Tetrachloroethene	NELAP	0.1	0.5		ND	µg/L	1	09/28/2022 15:52	198176
Tetrahydrofuran	NELAP	0.8	5.0	J	2.0	µg/L	1	09/28/2022 15:52	198176
Toluene	NELAP	0.1	2.0	J	0.4	µg/L	1	09/28/2022 15:52	198176
trans-1,2-Dichloroethene	NELAP	0.1	2.0	J	0.1	µg/L	1	09/28/2022 15:52	198176
trans-1,3-Dichloropropene	NELAP	0.1	2.0		ND	µg/L	1	09/28/2022 15:52	198176
trans-1,4-Dichloro-2-butene	NELAP	0.2	2.0		ND	µg/L	1	09/28/2022 15:52	198176
Trichloroethene	NELAP	0.2	2.0		ND	µg/L	1	09/28/2022 15:52	198176
Trichlorofluoromethane	NELAP	0.1	5.0		ND	µg/L	1	09/28/2022 15:52	198176
Vinyl acetate	NELAP	0.3	5.0		ND	µg/L	1	09/28/2022 15:52	198176

Laboratory Results

<http://www.teklabinc.com/>

Client: Loureiro Engineering Associates, LLC

Work Order: 22091697

Client Project: Huster GWS

Report Date: 04-Oct-22

Lab ID: 22091697-004

Client Sample ID: MW-12

Matrix: GROUNDWATER

Collection Date: 09/27/2022 13:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Vinyl chloride	NELAP	0.1	1.0		9.6	µg/L	1	09/28/2022 15:52	198176
Surr: 1,2-Dichloroethane-d4	*	0	80-120		84.9	%REC	1	09/28/2022 15:52	198176
Surr: 4-Bromofluorobenzene	*	0	80-120		98.1	%REC	1	09/28/2022 15:52	198176
Surr: Dibromofluoromethane	*	0	80-120		97.2	%REC	1	09/28/2022 15:52	198176
Surr: Toluene-d8	*	0	80-120		97.4	%REC	1	09/28/2022 15:52	198176

Naphthalene was detected in the MBLK at a level between the MDL and the RL. Sample result is less than the RL. Data is reportable.



Sample Summary

<http://www.teklabinc.com/>

Client: Loureiro Engineering Associates, LLC

Work Order: 22091697

Client Project: Huster GWS

Report Date: 04-Oct-22

Lab Sample ID	Client Sample ID	Matrix	Fractions	Collection Date
22091697-001	MW-8	Groundwater	1	09/27/2022 11:00
22091697-002	MW-13	Groundwater	1	09/27/2022 11:40
22091697-003	MW-11	Groundwater	1	09/27/2022 12:20
22091697-004	MW-12	Groundwater	1	09/27/2022 13:00



Dates Report

<http://www.teklabinc.com/>

Client: Loureiro Engineering Associates, LLC

Work Order: 22091697

Client Project: Huster GWS

Report Date: 04-Oct-22

Sample ID	Client Sample ID	Collection Date	Received Date	Prep Date/Time	Analysis Date/Time
				Test Name	
22091697-001A	MW-8	09/27/2022 11:00	09/27/2022 15:30	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS	09/29/2022 11:00
22091697-002A	MW-13	09/27/2022 11:40	09/27/2022 15:30	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS	09/28/2022 15:01
				SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS	09/29/2022 11:26
22091697-003A	MW-11	09/27/2022 12:20	09/27/2022 15:30	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS	09/28/2022 15:27
22091697-004A	MW-12	09/27/2022 13:00	09/27/2022 15:30	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS	09/28/2022 15:52
				SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS	09/29/2022 11:52



Quality Control Results

<http://www.teklabinc.com/>

Client: Loureiro Engineering Associates, LLC

Work Order: 22091697

Client Project: Huster GWS

Report Date: 04-Oct-22

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
1,1,1,2-Tetrachloroethane	*	2.0		ND						09/28/2022
1,1,1-Trichloroethane	*	2.0		ND						09/28/2022
1,1,2,2-Tetrachloroethane	*	2.0		ND						09/28/2022
1,1,2-Trichloro-1,2,2-trifluoroethane	*	5.0		ND						09/28/2022
1,1,2-Trichloroethane	*	0.5		ND						09/28/2022
1,1-Dichloro-2-propanone	*	30.0		ND						09/28/2022
1,1-Dichloroethane	*	2.0		ND						09/28/2022
1,1-Dichloroethene	*	2.0		ND						09/28/2022
1,1-Dichloropropene	*	2.0		ND						09/28/2022
1,2,3-Trichlorobenzene	*	2.0		ND						09/28/2022
1,2,3-Trichloropropane	*	2.0		ND						09/28/2022
1,2,3-Trimethylbenzene	*	2.0		ND						09/28/2022
1,2,4-Trichlorobenzene	*	2.0		ND						09/28/2022
1,2,4-Trimethylbenzene	*	2.0		ND						09/28/2022
1,2-Dibromo-3-chloropropane	*	5.0		ND						09/28/2022
1,2-Dibromoethane	*	2.0		ND						09/28/2022
1,2-Dichlorobenzene	*	2.0		ND						09/28/2022
1,2-Dichloroethane	*	2.0		ND						09/28/2022
1,2-Dichloropropane	*	2.0		ND						09/28/2022
1,3,5-Trimethylbenzene	*	2.0		ND						09/28/2022
1,3-Dichlorobenzene	*	2.0		ND						09/28/2022
1,3-Dichloropropane	*	2.0		ND						09/28/2022
1,4-Dichlorobenzene	*	2.0		ND						09/28/2022
1-Chlorobutane	*	5.0		ND						09/28/2022
2,2-Dichloropropane	*	2.0		ND						09/28/2022
2-Butanone	*	10.0		ND						09/28/2022
2-Chloroethyl vinyl ether	*	5.0		ND						09/28/2022
2-Chlorotoluene	*	2.0		ND						09/28/2022
2-Hexanone	*	10.0		ND						09/28/2022
2-Nitropropane	*	10.0		ND						09/28/2022
4-Chlorotoluene	*	2.0		ND						09/28/2022
4-Methyl-2-pentanone	*	10.0		ND						09/28/2022
Acetone	*	10.0		ND						09/28/2022
Acetonitrile	*	10.0		ND						09/28/2022
Acrolein	*	20.0		ND						09/28/2022
Acrylonitrile	*	5.0		ND						09/28/2022



Quality Control Results

<http://www.teklabinc.com/>

Client: Loureiro Engineering Associates, LLC

Work Order: 22091697

Client Project: Huster GWS

Report Date: 04-Oct-22

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Allyl chloride	*	5.0		ND						09/28/2022
Benzene	*	0.5		ND						09/28/2022
Bromobenzene	*	2.0		ND						09/28/2022
Bromochloromethane	*	2.0		ND						09/28/2022
Bromodichloromethane	*	2.0		ND						09/28/2022
Bromoform	*	2.0		ND						09/28/2022
Bromomethane	*	5.0		ND						09/28/2022
Carbon disulfide	*	2.0		ND						09/28/2022
Carbon tetrachloride	*	2.0		ND						09/28/2022
Chlorobenzene	*	2.0		ND						09/28/2022
Chloroethane	*	2.0		ND						09/28/2022
Chloroform	*	2.0		ND						09/28/2022
Chloromethane	*	5.0		ND						09/28/2022
Chloroprene	*	5.0		ND						09/28/2022
cis-1,2-Dichloroethene	*	2.0		ND						09/28/2022
cis-1,3-Dichloropropene	*	2.0		ND						09/28/2022
cis-1,4-Dichloro-2-butene	*	2.0		ND						09/28/2022
Cyclohexanone	*	20.0		ND						09/28/2022
Dibromochloromethane	*	2.0		ND						09/28/2022
Dibromomethane	*	2.0		ND						09/28/2022
Dichlorodifluoromethane	*	2.0		ND						09/28/2022
Ethyl acetate	*	10.0		ND						09/28/2022
Ethyl ether	*	5.0		ND						09/28/2022
Ethyl methacrylate	*	5.0		ND						09/28/2022
Ethylbenzene	*	2.0		ND						09/28/2022
Hexachlorobutadiene	*	5.0		ND						09/28/2022
Hexachloroethane	*	5.0		ND						09/28/2022
Iodomethane	*	5.0		ND						09/28/2022
Isopropylbenzene	*	2.0		ND						09/28/2022
m,p-Xylenes	*	2.0		ND						09/28/2022
Methacrylonitrile	*	5.0		ND						09/28/2022
Methyl Methacrylate	*	5.0		ND						09/28/2022
Methyl tert-butyl ether	*	2.0		ND						09/28/2022
Methylacrylate	*	5.0		ND						09/28/2022
Methylene chloride	*	2.0		ND						09/28/2022
Naphthalene	*	5.0	J	0.4						09/28/2022



Quality Control Results

<http://www.teklabinc.com/>

Client: Loureiro Engineering Associates, LLC

Work Order: 22091697

Client Project: Huster GWS

Report Date: 04-Oct-22

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
n-Butyl acetate	*	2.0		ND						09/28/2022
n-Butylbenzene	*	2.0		ND						09/28/2022
n-Heptane	*	5.0		ND						09/28/2022
n-Hexane	*	5.0		ND						09/28/2022
Nitrobenzene	*	50.0		ND						09/28/2022
n-Propylbenzene	*	2.0		ND						09/28/2022
o-Xylene	*	2.0		ND						09/28/2022
Pentachloroethane	*	5.0		ND						09/28/2022
p-Isopropyltoluene	*	2.0		ND						09/28/2022
Propionitrile	*	10.0		ND						09/28/2022
sec-Butylbenzene	*	2.0		ND						09/28/2022
Styrene	*	2.0		ND						09/28/2022
tert-Butylbenzene	*	2.0		ND						09/28/2022
Tetrachloroethene	*	0.5		ND						09/28/2022
Tetrahydrofuran	*	5.0		ND						09/28/2022
Toluene	*	2.0		ND						09/28/2022
trans-1,2-Dichloroethene	*	2.0		ND						09/28/2022
trans-1,3-Dichloropropene	*	2.0		ND						09/28/2022
trans-1,4-Dichloro-2-butene	*	2.0		ND						09/28/2022
Trichloroethene	*	2.0		ND						09/28/2022
Trichlorofluoromethane	*	5.0		ND						09/28/2022
Vinyl acetate	*	5.0		ND						09/28/2022
Vinyl chloride	*	2.0		ND						09/28/2022
Surr: 1,2-Dichloroethane-d4	*			42.9	50.00		85.7	80	120	09/28/2022
Surr: 4-Bromofluorobenzene	*			49.9	50.00		99.8	80	120	09/28/2022
Surr: Dibromofluoromethane	*			48.9	50.00		97.7	80	120	09/28/2022
Surr: Toluene-d8	*			48.6	50.00		97.1	80	120	09/28/2022



Quality Control Results

<http://www.teklabinc.com/>

Client: Loureiro Engineering Associates, LLC

Work Order: 22091697

Client Project: Huster GWS

Report Date: 04-Oct-22

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch	198176	SampType:	LCS	Units	µg/L					
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
1,1,1,2-Tetrachloroethane	*	2.0		48.9	50.00	0	97.8	82	113	09/28/2022
1,1,1-Trichloroethane	*	2.0		50.9	50.00	0	101.7	76.9	128	09/28/2022
1,1,2,2-Tetrachloroethane	*	2.0		48.4	50.00	0	96.9	76.7	113	09/28/2022
1,1,2-Trichloro-1,2,2-trifluoroethane	*	5.0		51.2	50.00	0	102.3	69.5	127	09/28/2022
1,1,2-Trichloroethane	*	0.5		48.6	50.00	0	97.1	83.8	111	09/28/2022
1,1-Dichloro-2-propanone	*	30.0		115	125.0	0	92.0	74.9	117	09/28/2022
1,1-Dichloroethane	*	2.0		54.6	50.00	0	109.2	77	129	09/28/2022
1,1-Dichloroethene	*	2.0		52.5	50.00	0	105.0	69.4	127	09/28/2022
1,1-Dichloropropene	*	2.0		54.5	50.00	0	109.1	75.1	123	09/28/2022
1,2,3-Trichlorobenzene	*	2.0		50.8	50.00	0	101.5	77.3	121	09/28/2022
1,2,3-Trichloropropane	*	2.0		44.6	50.00	0	89.3	75.3	109	09/28/2022
1,2,3-Trimethylbenzene	*	2.0		50.3	50.00	0	100.5	77	115	09/28/2022
1,2,4-Trichlorobenzene	*	2.0		50.5	50.00	0	101.0	76.8	124	09/28/2022
1,2,4-Trimethylbenzene	*	2.0		50.2	50.00	0	100.4	75	115	09/28/2022
1,2-Dibromo-3-chloropropane	*	5.0		45.2	50.00	0	90.3	71.9	119	09/28/2022
1,2-Dibromoethane	*	2.0		48.7	50.00	0	97.3	83.6	110	09/28/2022
1,2-Dichlorobenzene	*	2.0		48.0	50.00	0	96.1	72.1	113	09/28/2022
1,2-Dichloroethane	*	2.0		45.8	50.00	0	91.7	72.3	117	09/28/2022
1,2-Dichloropropane	*	2.0		54.7	50.00	0	109.4	76.5	119	09/28/2022
1,3,5-Trimethylbenzene	*	2.0		50.0	50.00	0	100.1	75.2	117	09/28/2022
1,3-Dichlorobenzene	*	2.0		50.2	50.00	0	100.4	75.2	115	09/28/2022
1,3-Dichloropropane	*	2.0		50.1	50.00	0	100.1	80.9	110	09/28/2022
1,4-Dichlorobenzene	*	2.0		49.4	50.00	0	98.8	73.9	112	09/28/2022
1-Chlorobutane	*	5.0		56.5	50.00	0	113.1	74.9	130	09/28/2022
2,2-Dichloropropane	*	2.0		49.6	50.00	0	99.3	66.5	138	09/28/2022
2-Butanone	*	10.0		126	125.0	0	101.0	68.8	134	09/28/2022
2-Chloroethyl vinyl ether	*	5.0		52.3	50.00	0	104.7	17.8	163	09/28/2022
2-Chlorotoluene	*	2.0		50.7	50.00	0	101.4	74.9	115	09/28/2022
2-Hexanone	*	10.0		119	125.0	0	95.5	73.2	117	09/28/2022
2-Nitropropane	*	10.0		441	500.0	0	88.3	67.1	140	09/28/2022
4-Chlorotoluene	*	2.0		50.3	50.00	0	100.6	75.7	113	09/28/2022
4-Methyl-2-pentanone	*	10.0		126	125.0	0	101.0	77	113	09/28/2022
Acetone	*	10.0		126	125.0	0	100.8	61.4	130	09/28/2022
Acetonitrile	*	10.0		599	500.0	0	119.8	68.8	136	09/28/2022
Acrolein	*	20.0		591	500.0	0	118.3	28.4	168	09/28/2022
Acrylonitrile	*	5.0		55.8	50.00	0	111.5	77.9	124	09/28/2022

Quality Control Results

<http://www.teklabinc.com/>
Client: Loureiro Engineering Associates, LLC

Work Order: 22091697

Client Project: Huster GWS

Report Date: 04-Oct-22

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch	198176	SampType:	LCS	Units	µg/L						
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Allyl chloride	*		5.0		55.6	50.00	0	111.1	75.8	130	09/28/2022
Benzene	*		0.5		56.1	50.00	0	112.3	78.5	119	09/28/2022
Bromobenzene	*		2.0		50.0	50.00	0	100.1	77.5	113	09/28/2022
Bromochloromethane	*		2.0		51.6	50.00	0	103.3	71.5	123	09/28/2022
Bromodichloromethane	*		2.0		51.5	50.00	0	103.1	75.7	123	09/28/2022
Bromoform	*		2.0		45.5	50.00	0	91.0	78.9	121	09/28/2022
Bromomethane	*		5.0		47.3	50.00	0	94.5	30.5	192	09/28/2022
Carbon disulfide	*		2.0		54.7	50.00	0	109.5	66.7	121	09/28/2022
Carbon tetrachloride	*		2.0		49.8	50.00	0	99.6	70.9	127	09/28/2022
Chlorobenzene	*		2.0		49.3	50.00	0	98.6	80	111	09/28/2022
Chloroethane	*		2.0		48.2	50.00	0	96.5	69.6	135	09/28/2022
Chloroform	*		2.0		51.4	50.00	0	102.8	76.2	120	09/28/2022
Chloromethane	*		5.0		45.5	50.00	0	90.9	50.9	138	09/28/2022
Chloroprene	*		5.0		51.8	50.00	0	103.5	68.4	127	09/28/2022
cis-1,2-Dichloroethene	*		2.0		56.8	50.00	0	113.6	79.5	121	09/28/2022
cis-1,3-Dichloropropene	*		2.0		54.3	50.00	0	108.5	79.8	123	09/28/2022
cis-1,4-Dichloro-2-butene	*		2.0		42.9	50.00	0	85.7	64.6	130	09/28/2022
Cyclohexanone	*		20.0		491	500.0	0	98.3	70.5	114	09/28/2022
Dibromochloromethane	*		2.0		47.9	50.00	0	95.9	84.5	114	09/28/2022
Dibromomethane	*		2.0		49.3	50.00	0	98.7	76	119	09/28/2022
Dichlorodifluoromethane	*		2.0		34.3	50.00	0	68.6	46.6	142	09/28/2022
Ethyl acetate	*		10.0		50.9	50.00	0	101.9	70.3	115	09/28/2022
Ethyl ether	*		5.0		51.8	50.00	0	103.7	74.6	120	09/28/2022
Ethyl methacrylate	*		5.0		49.3	50.00	0	98.6	81.4	116	09/28/2022
Ethylbenzene	*		2.0		50.6	50.00	0	101.3	78.2	114	09/28/2022
Hexachlorobutadiene	*		5.0		52.9	50.00	0	105.8	73.9	129	09/28/2022
Hexachloroethane	*		5.0		52.7	50.00	0	105.3	78.3	123	09/28/2022
Iodomethane	*		5.0		57.2	50.00	0	114.4	50	151	09/28/2022
Isopropylbenzene	*		2.0		50.9	50.00	0	101.8	79.3	115	09/28/2022
m,p-Xylenes	*		2.0		100	100.0	0	100.1	77.2	116	09/28/2022
Methacrylonitrile	*		5.0		54.3	50.00	0	108.6	73.9	127	09/28/2022
Methyl Methacrylate	*		5.0		51.2	50.00	0	102.5	70.7	129	09/28/2022
Methyl tert-butyl ether	*		2.0		50.5	50.00	0	100.9	80.3	122	09/28/2022
Methylacrylate	*		5.0		53.2	50.00	0	106.5	75.2	124	09/28/2022
Methylene chloride	*		2.0		51.5	50.00	0	103.0	71.8	115	09/28/2022
Naphthalene	*		5.0	B	51.2	50.00	0	102.3	75.6	121	09/28/2022



Quality Control Results

<http://www.teklabinc.com/>

Client: Loureiro Engineering Associates, LLC

Work Order: 22091697

Client Project: Huster GWS

Report Date: 04-Oct-22

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch	198176	SampType:	LCS	Units	µg/L						Date Analyzed
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	
n-Butyl acetate		*	2.0		48.4	50.00	0	96.7	72.4	118	09/28/2022
n-Butylbenzene		*	2.0		50.6	50.00	0	101.3	70.8	118	09/28/2022
n-Heptane		*	5.0		57.7	50.00	0	115.4	50.4	143	09/28/2022
n-Hexane		*	5.0		51.8	50.00	0	103.6	60.6	139	09/28/2022
Nitrobenzene		*	50.0		483	500.0	0	96.7	49.4	129	09/28/2022
n-Propylbenzene		*	2.0		51.5	50.00	0	103.1	74	119	09/28/2022
o-Xylene		*	2.0		49.8	50.00	0	99.7	79.2	112	09/28/2022
Pentachloroethane		*	5.0		49.9	50.00	0	99.8	71.8	124	09/28/2022
p-Isopropyltoluene		*	2.0		50.8	50.00	0	101.5	74.4	119	09/28/2022
Propionitrile		*	10.0		567	500.0	0	113.4	76.2	127	09/28/2022
sec-Butylbenzene		*	2.0		52.9	50.00	0	105.8	74.4	119	09/28/2022
Styrene		*	2.0		50.6	50.00	0	101.2	80.4	117	09/28/2022
tert-Butylbenzene		*	2.0		49.2	50.00	0	98.4	74	115	09/28/2022
Tetrachloroethene		*	0.5		49.4	50.00	0	98.9	70.1	120	09/28/2022
Tetrahydrofuran		*	5.0		51.6	50.00	0	103.1	63.5	122	09/28/2022
Toluene		*	2.0		51.0	50.00	0	102.1	78.6	112	09/28/2022
trans-1,2-Dichloroethene		*	2.0		53.1	50.00	0	106.1	75.7	130	09/28/2022
trans-1,3-Dichloropropene		*	2.0		48.9	50.00	0	97.8	80.3	116	09/28/2022
trans-1,4-Dichloro-2-butene		*	2.0		40.9	50.00	0	81.8	65.5	124	09/28/2022
Trichloroethene		*	2.0		53.6	50.00	0	107.3	76.2	121	09/28/2022
Trichlorofluoromethane		*	5.0		50.3	50.00	0	100.6	71.1	131	09/28/2022
Vinyl acetate		*	5.0		52.9	50.00	0	105.8	79.8	129	09/28/2022
Vinyl chloride		*	2.0		40.0	50.00	0	80.1	58.6	141	09/28/2022
Surr: 1,2-Dichloroethane-d4		*			43.5	50.00		87.0	80	120	09/28/2022
Surr: 4-Bromofluorobenzene		*			49.3	50.00		98.7	80	120	09/28/2022
Surr: Dibromofluoromethane		*			49.5	50.00		99.0	80	120	09/28/2022
Surr: Toluene-d8		*			48.0	50.00		95.9	80	120	09/28/2022



Quality Control Results

<http://www.teklabinc.com/>

Client: Loureiro Engineering Associates, LLC

Work Order: 22091697

Client Project: Huster GWS

Report Date: 04-Oct-22

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch	198176	SampType:	LCSD	Units	μg/L	RPD Limit 15.4				Date Analyzed
					SampID:	LCSD-AE220928A-1				
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	
1,1,1,2-Tetrachloroethane	*	2.0		47.8	50.00	0	95.5	48.90	2.36	09/28/2022
1,1,1-Trichloroethane	*	2.0		50.2	50.00	0	100.5	50.86	1.25	09/28/2022
1,1,2,2-Tetrachloroethane	*	2.0		47.8	50.00	0	95.6	48.44	1.37	09/28/2022
1,1,2-Trichloro-1,2,2-trifluoroethane	*	5.0		50.9	50.00	0	101.9	51.15	0.41	09/28/2022
1,1,2-Trichloroethane	*	0.5		48.5	50.00	0	96.9	48.55	0.16	09/28/2022
1,1-Dichloro-2-propanone	*	30.0		111	125.0	0	88.8	115.0	3.49	09/28/2022
1,1-Dichloroethane	*	2.0		53.7	50.00	0	107.3	54.58	1.70	09/28/2022
1,1-Dichloroethene	*	2.0		51.4	50.00	0	102.7	52.48	2.18	09/28/2022
1,1-Dichloropropene	*	2.0		54.5	50.00	0	109.0	54.53	0.02	09/28/2022
1,2,3-Trichlorobenzene	*	2.0		51.2	50.00	0	102.3	50.75	0.82	09/28/2022
1,2,3-Trichloropropane	*	2.0		45.5	50.00	0	91.0	44.64	1.95	09/28/2022
1,2,3-Trimethylbenzene	*	2.0		49.3	50.00	0	98.6	50.26	1.93	09/28/2022
1,2,4-Trichlorobenzene	*	2.0		50.5	50.00	0	101.0	50.49	0.06	09/28/2022
1,2,4-Trimethylbenzene	*	2.0		49.5	50.00	0	99.0	50.22	1.44	09/28/2022
1,2-Dibromo-3-chloropropane	*	5.0		46.5	50.00	0	93.0	45.15	2.90	09/28/2022
1,2-Dibromoethane	*	2.0		48.0	50.00	0	96.1	48.67	1.28	09/28/2022
1,2-Dichlorobenzene	*	2.0		47.8	50.00	0	95.5	48.05	0.63	09/28/2022
1,2-Dichloroethane	*	2.0		45.3	50.00	0	90.6	45.85	1.21	09/28/2022
1,2-Dichloropropane	*	2.0		54.0	50.00	0	108.1	54.69	1.18	09/28/2022
1,3,5-Trimethylbenzene	*	2.0		49.5	50.00	0	99.1	50.03	1.00	09/28/2022
1,3-Dichlorobenzene	*	2.0		49.2	50.00	0	98.4	50.20	2.03	09/28/2022
1,3-Dichloropropane	*	2.0		49.6	50.00	0	99.2	50.06	0.94	09/28/2022
1,4-Dichlorobenzene	*	2.0		48.8	50.00	0	97.6	49.38	1.18	09/28/2022
1-Chlorobutane	*	5.0		56.1	50.00	0	112.2	56.53	0.73	09/28/2022
2,2-Dichloropropane	*	2.0		48.7	50.00	0	97.4	49.63	1.87	09/28/2022
2-Butanone	*	10.0		127	125.0	0	101.6	126.2	0.66	09/28/2022
2-Chloroethyl vinyl ether	*	5.0		52.4	50.00	0	104.9	52.33	0.19	09/28/2022
2-Chlorotoluene	*	2.0		50.1	50.00	0	100.2	50.68	1.19	09/28/2022
2-Hexanone	*	10.0		121	125.0	0	96.9	119.4	1.43	09/28/2022
2-Nitropropane	*	10.0		451	500.0	0	90.2	441.3	2.13	09/28/2022
4-Chlorotoluene	*	2.0		49.6	50.00	0	99.2	50.32	1.40	09/28/2022
4-Methyl-2-pentanone	*	10.0		128	125.0	0	102.4	126.3	1.35	09/28/2022
Acetone	*	10.0		127	125.0	0	101.6	126.0	0.81	09/28/2022
Acetonitrile	*	10.0		615	500.0	0	123.0	598.8	2.70	09/28/2022
Acrolein	*	20.0		601	500.0	0	120.2	591.4	1.62	09/28/2022
Acrylonitrile	*	5.0		57.5	50.00	0	115.0	55.75	3.09	09/28/2022



Quality Control Results

<http://www.teklabinc.com/>

Client: Loureiro Engineering Associates, LLC

Work Order: 22091697

Client Project: Huster GWS

Report Date: 04-Oct-22

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Allyl chloride	*	5.0		51.9	50.00	0	103.7	55.56	6.89	09/28/2022
Benzene	*	0.5		55.4	50.00	0	110.7	56.14	1.38	09/28/2022
Bromobenzene	*	2.0		49.8	50.00	0	99.6	50.04	0.44	09/28/2022
Bromochloromethane	*	2.0		52.1	50.00	0	104.2	51.63	0.87	09/28/2022
Bromodichloromethane	*	2.0		51.1	50.00	0	102.3	51.53	0.76	09/28/2022
Bromoform	*	2.0		45.6	50.00	0	91.1	45.48	0.15	09/28/2022
Bromomethane	*	5.0		49.1	50.00	0	98.2	47.26	3.78	09/28/2022
Carbon disulfide	*	2.0		54.0	50.00	0	108.0	54.73	1.38	09/28/2022
Carbon tetrachloride	*	2.0		50.0	50.00	0	100.0	49.78	0.44	09/28/2022
Chlorobenzene	*	2.0		49.0	50.00	0	98.0	49.29	0.59	09/28/2022
Chloroethane	*	2.0		49.8	50.00	0	99.7	48.25	3.24	09/28/2022
Chloroform	*	2.0		50.7	50.00	0	101.5	51.38	1.27	09/28/2022
Chloromethane	*	5.0		45.6	50.00	0	91.1	45.47	0.20	09/28/2022
Chloroprene	*	5.0		51.1	50.00	0	102.3	51.77	1.24	09/28/2022
cis-1,2-Dichloroethene	*	2.0		55.9	50.00	0	111.8	56.78	1.54	09/28/2022
cis-1,3-Dichloropropene	*	2.0		53.4	50.00	0	106.8	54.27	1.65	09/28/2022
cis-1,4-Dichloro-2-butene	*	2.0		43.3	50.00	0	86.5	42.87	0.93	09/28/2022
Cyclohexanone	*	20.0		506	500.0	0	101.3	491.3	3.04	09/28/2022
Dibromochloromethane	*	2.0		47.6	50.00	0	95.2	47.94	0.75	09/28/2022
Dibromomethane	*	2.0		48.9	50.00	0	97.8	49.33	0.92	09/28/2022
Dichlorodifluoromethane	*	2.0		34.8	50.00	0	69.5	34.32	1.27	09/28/2022
Ethyl acetate	*	10.0		52.9	50.00	0	105.8	50.94	3.79	09/28/2022
Ethyl ether	*	5.0		51.8	50.00	0	103.6	51.83	0.06	09/28/2022
Ethyl methacrylate	*	5.0		49.2	50.00	0	98.4	49.29	0.20	09/28/2022
Ethylbenzene	*	2.0		49.8	50.00	0	99.7	50.65	1.59	09/28/2022
Hexachlorobutadiene	*	5.0		52.3	50.00	0	104.6	52.91	1.16	09/28/2022
Hexachloroethane	*	5.0		52.0	50.00	0	104.0	52.66	1.24	09/28/2022
Iodomethane	*	5.0		55.4	50.00	0	110.8	57.21	3.25	09/28/2022
Isopropylbenzene	*	2.0		50.7	50.00	0	101.4	50.89	0.39	09/28/2022
m,p-Xylenes	*	2.0		99.0	100.0	0	99.0	100.1	1.08	09/28/2022
Methacrylonitrile	*	5.0		55.4	50.00	0	110.7	54.28	1.95	09/28/2022
Methyl Methacrylate	*	5.0		51.9	50.00	0	103.8	51.25	1.26	09/28/2022
Methyl tert-butyl ether	*	2.0		50.1	50.00	0	100.2	50.46	0.68	09/28/2022
Methylacrylate	*	5.0		53.4	50.00	0	106.8	53.24	0.28	09/28/2022
Methylene chloride	*	2.0		50.4	50.00	0	100.8	51.49	2.18	09/28/2022
Naphthalene	*	5.0	B	51.2	50.00	0	102.4	51.15	0.06	09/28/2022

Quality Control Results

<http://www.teklabinc.com/>

Client: Loureiro Engineering Associates, LLC

Work Order: 22091697

Client Project: Huster GWS

Report Date: 04-Oct-22

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch	198176	SampType:	LCSD	Units	µg/L	RPD Limit 15.4			Date Analyzed
SampID:	LCSD-AE220928A-1								
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD
n-Butyl acetate	*	2.0		48.4	50.00	0	96.9	48.36	0.17
n-Butylbenzene	*	2.0		50.2	50.00	0	100.3	50.63	0.91
n-Heptane	*	5.0		57.6	50.00	0	115.3	57.70	0.12
n-Hexane	*	5.0		54.0	50.00	0	108.0	51.79	4.16
Nitrobenzene	*	50.0		499	500.0	0	99.8	483.4	3.13
n-Propylbenzene	*	2.0		50.9	50.00	0	101.8	51.53	1.25
o-Xylene	*	2.0		49.9	50.00	0	99.8	49.85	0.10
Pentachloroethane	*	5.0		49.7	50.00	0	99.5	49.88	0.30
p-Isopropyltoluene	*	2.0		50.5	50.00	0	101.0	50.75	0.49
Propionitrile	*	10.0		572	500.0	0	114.4	566.8	0.90
sec-Butylbenzene	*	2.0		52.2	50.00	0	104.4	52.89	1.29
Styrene	*	2.0		50.3	50.00	0	100.6	50.59	0.61
tert-Butylbenzene	*	2.0		48.4	50.00	0	96.8	49.21	1.64
Tetrachloroethene	*	0.5		48.5	50.00	0	97.0	49.44	1.88
Tetrahydrofuran	*	5.0		52.3	50.00	0	104.6	51.56	1.42
Toluene	*	2.0		50.2	50.00	0	100.3	51.04	1.76
trans-1,2-Dichloroethene	*	2.0		52.7	50.00	0	105.4	53.07	0.72
trans-1,3-Dichloropropene	*	2.0		48.1	50.00	0	96.2	48.89	1.65
trans-1,4-Dichloro-2-butene	*	2.0		41.0	50.00	0	82.1	40.88	0.39
Trichloroethene	*	2.0		53.0	50.00	0	106.0	53.65	1.18
Trichlorofluoromethane	*	5.0		46.0	50.00	0	92.1	50.32	8.88
Vinyl acetate	*	5.0		53.4	50.00	0	106.8	52.92	0.87
Vinyl chloride	*	2.0		41.2	50.00	0	82.4	40.04	2.86
Surr: 1,2-Dichloroethane-d4	*			43.6	50.00		87.2		09/28/2022
Surr: 4-Bromofluorobenzene	*			49.6	50.00		99.3		09/28/2022
Surr: Dibromofluoromethane	*			49.4	50.00		98.8		09/28/2022
Surr: Toluene-d8	*			47.8	50.00		95.6		09/28/2022

Batch	198176	SampType:	LCSG	Units	%REC				Date Analyzed
SampID:	LCSG-AE220928A-1								
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit
Surr: 1,2-Dichloroethane-d4	*			43.8	50.00		87.6	80	120
Surr: 4-Bromofluorobenzene	*			49.6	50.00		99.2	80	120
Surr: Dibromofluoromethane	*			49.1	50.00		98.1	80	120
Surr: Toluene-d8	*			48.7	50.00		97.3	80	120



Quality Control Results

<http://www.teklabinc.com/>

Client: Loureiro Engineering Associates, LLC

Work Order: 22091697

Client Project: Huster GWS

Report Date: 04-Oct-22

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch	198176	SampType:	LCSGD	Units	%REC	RPD Limit 0				Date Analyzed
SampID: LCSGD-AE220928A-1										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	
Surr: 1,2-Dichloroethane-d4	*			43.2	50.00		86.5			09/28/2022
Surr: 4-Bromofluorobenzene	*			49.2	50.00		98.3			09/28/2022
Surr: Dibromofluoromethane	*			49.1	50.00		98.1			09/28/2022
Surr: Toluene-d8	*			49.3	50.00		98.5			09/28/2022



Quality Control Results

<http://www.teklabinc.com/>

Client: Loureiro Engineering Associates, LLC

Work Order: 22091697

Client Project: Huster GWS

Report Date: 04-Oct-22

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
1,1,1,2-Tetrachloroethane	*	2.0		ND						09/29/2022
1,1,1-Trichloroethane	*	2.0		ND						09/29/2022
1,1,2,2-Tetrachloroethane	*	2.0		ND						09/29/2022
1,1,2-Trichloro-1,2,2-trifluoroethane	*	5.0		ND						09/29/2022
1,1,2-Trichloroethane	*	0.5		ND						09/29/2022
1,1-Dichloro-2-propanone	*	30.0		ND						09/29/2022
1,1-Dichloroethane	*	2.0		ND						09/29/2022
1,1-Dichloroethene	*	2.0		ND						09/29/2022
1,1-Dichloropropene	*	2.0		ND						09/29/2022
1,2,3-Trichlorobenzene	*	2.0		ND						09/29/2022
1,2,3-Trichloropropane	*	2.0		ND						09/29/2022
1,2,3-Trimethylbenzene	*	2.0		ND						09/29/2022
1,2,4-Trichlorobenzene	*	2.0		ND						09/29/2022
1,2,4-Trimethylbenzene	*	2.0		ND						09/29/2022
1,2-Dibromo-3-chloropropane	*	5.0		ND						09/29/2022
1,2-Dibromoethane	*	2.0		ND						09/29/2022
1,2-Dichlorobenzene	*	2.0		ND						09/29/2022
1,2-Dichloroethane	*	2.0		ND						09/29/2022
1,2-Dichloropropane	*	2.0		ND						09/29/2022
1,3,5-Trimethylbenzene	*	2.0		ND						09/29/2022
1,3-Dichlorobenzene	*	2.0		ND						09/29/2022
1,3-Dichloropropane	*	2.0		ND						09/29/2022
1,4-Dichlorobenzene	*	2.0		ND						09/29/2022
1-Chlorobutane	*	5.0		ND						09/29/2022
2,2-Dichloropropane	*	2.0		ND						09/29/2022
2-Butanone	*	10.0		ND						09/29/2022
2-Chloroethyl vinyl ether	*	5.0		ND						09/29/2022
2-Chlorotoluene	*	2.0		ND						09/29/2022
2-Hexanone	*	10.0		ND						09/29/2022
2-Nitropropane	*	10.0		ND						09/29/2022
4-Chlorotoluene	*	2.0		ND						09/29/2022
4-Methyl-2-pentanone	*	10.0		ND						09/29/2022
Acetone	*	10.0		ND						09/29/2022
Acetonitrile	*	10.0		ND						09/29/2022
Acrolein	*	20.0		ND						09/29/2022
Acrylonitrile	*	5.0		ND						09/29/2022



Quality Control Results

<http://www.teklabinc.com/>

Client: Loureiro Engineering Associates, LLC

Work Order: 22091697

Client Project: Huster GWS

Report Date: 04-Oct-22

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Allyl chloride	*	5.0		ND						09/29/2022
Benzene	*	0.5		ND						09/29/2022
Bromobenzene	*	2.0		ND						09/29/2022
Bromochloromethane	*	2.0		ND						09/29/2022
Bromodichloromethane	*	2.0		ND						09/29/2022
Bromoform	*	2.0		ND						09/29/2022
Bromomethane	*	5.0		ND						09/29/2022
Carbon disulfide	*	2.0		ND						09/29/2022
Carbon tetrachloride	*	2.0		ND						09/29/2022
Chlorobenzene	*	2.0		ND						09/29/2022
Chloroethane	*	2.0		ND						09/29/2022
Chloroform	*	2.0		ND						09/29/2022
Chloromethane	*	5.0		ND						09/29/2022
Chloroprene	*	5.0		ND						09/29/2022
cis-1,2-Dichloroethene	*	2.0		ND						09/29/2022
cis-1,3-Dichloropropene	*	2.0		ND						09/29/2022
cis-1,4-Dichloro-2-butene	*	2.0		ND						09/29/2022
Cyclohexanone	*	20.0		ND						09/29/2022
Dibromochloromethane	*	2.0		ND						09/29/2022
Dibromomethane	*	2.0		ND						09/29/2022
Dichlorodifluoromethane	*	2.0		ND						09/29/2022
Ethyl acetate	*	10.0		ND						09/29/2022
Ethyl ether	*	5.0		ND						09/29/2022
Ethyl methacrylate	*	5.0		ND						09/29/2022
Ethylbenzene	*	2.0		ND						09/29/2022
Hexachlorobutadiene	*	5.0		ND						09/29/2022
Hexachloroethane	*	5.0		ND						09/29/2022
Iodomethane	*	5.0		ND						09/29/2022
Isopropylbenzene	*	2.0		ND						09/29/2022
m,p-Xylenes	*	2.0		ND						09/29/2022
Methacrylonitrile	*	5.0		ND						09/29/2022
Methyl Methacrylate	*	5.0		ND						09/29/2022
Methyl tert-butyl ether	*	2.0		ND						09/29/2022
Methylacrylate	*	5.0		ND						09/29/2022
Methylene chloride	*	2.0		ND						09/29/2022
Naphthalene	*	5.0		ND						09/29/2022



Quality Control Results

<http://www.teklabinc.com/>

Client: Loureiro Engineering Associates, LLC

Work Order: 22091697

Client Project: Huster GWS

Report Date: 04-Oct-22

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
n-Butyl acetate	*	2.0		ND						09/29/2022
n-Butylbenzene	*	2.0		ND						09/29/2022
n-Heptane	*	5.0		ND						09/29/2022
n-Hexane	*	5.0		ND						09/29/2022
Nitrobenzene	*	50.0		ND						09/29/2022
n-Propylbenzene	*	2.0		ND						09/29/2022
o-Xylene	*	2.0		ND						09/29/2022
Pentachloroethane	*	5.0		ND						09/29/2022
p-Isopropyltoluene	*	2.0		ND						09/29/2022
Propionitrile	*	10.0		ND						09/29/2022
sec-Butylbenzene	*	2.0		ND						09/29/2022
Styrene	*	2.0		ND						09/29/2022
tert-Butylbenzene	*	2.0		ND						09/29/2022
Tetrachloroethene	*	0.5		ND						09/29/2022
Tetrahydrofuran	*	5.0		ND						09/29/2022
Toluene	*	2.0		ND						09/29/2022
trans-1,2-Dichloroethene	*	2.0		ND						09/29/2022
trans-1,3-Dichloropropene	*	2.0		ND						09/29/2022
trans-1,4-Dichloro-2-butene	*	2.0		ND						09/29/2022
Trichloroethene	*	2.0		ND						09/29/2022
Trichlorofluoromethane	*	5.0		ND						09/29/2022
Vinyl acetate	*	5.0		ND						09/29/2022
Vinyl chloride	*	2.0		ND						09/29/2022
Surr: 1,2-Dichloroethane-d4	*			42.7	50.00		85.5	80	120	09/29/2022
Surr: 4-Bromofluorobenzene	*			49.6	50.00		99.1	80	120	09/29/2022
Surr: Dibromofluoromethane	*			48.0	50.00		96.0	80	120	09/29/2022
Surr: Toluene-d8	*			47.5	50.00		95.1	80	120	09/29/2022



Quality Control Results

<http://www.teklabinc.com/>

Client: Loureiro Engineering Associates, LLC

Work Order: 22091697

Client Project: Huster GWS

Report Date: 04-Oct-22

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch	198220	SampType:	LCS	Units	µg/L					
SampID: LCS-AE220929A-1										Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	
1,1,1,2-Tetrachloroethane	*	2.0		47.6	50.00	0	95.2	82	113	09/29/2022
1,1,1-Trichloroethane	*	2.0		50.2	50.00	0	100.3	76.9	128	09/29/2022
1,1,2,2-Tetrachloroethane	*	2.0		47.4	50.00	0	94.9	76.7	113	09/29/2022
1,1,2-Trichloro-1,2,2-trifluoroethane	*	5.0		52.6	50.00	0	105.1	69.5	127	09/29/2022
1,1,2-Trichloroethane	*	0.5		47.8	50.00	0	95.5	83.8	111	09/29/2022
1,1-Dichloro-2-propanone	*	30.0		105	125.0	0	84.0	74.9	117	09/29/2022
1,1-Dichloroethane	*	2.0		53.8	50.00	0	107.5	77	129	09/29/2022
1,1-Dichloroethene	*	2.0		51.6	50.00	0	103.1	69.4	127	09/29/2022
1,1-Dichloropropene	*	2.0		54.3	50.00	0	108.6	75.1	123	09/29/2022
1,2,3-Trichlorobenzene	*	2.0		50.2	50.00	0	100.3	77.3	121	09/29/2022
1,2,3-Trichloropropane	*	2.0		43.0	50.00	0	86.1	75.3	109	09/29/2022
1,2,3-Trimethylbenzene	*	2.0		48.4	50.00	0	96.8	77	115	09/29/2022
1,2,4-Trichlorobenzene	*	2.0		49.2	50.00	0	98.4	76.8	124	09/29/2022
1,2,4-Trimethylbenzene	*	2.0		48.7	50.00	0	97.4	75	115	09/29/2022
1,2-Dibromo-3-chloropropane	*	5.0		44.5	50.00	0	89.0	71.9	119	09/29/2022
1,2-Dibromoethane	*	2.0		47.4	50.00	0	94.9	83.6	110	09/29/2022
1,2-Dichlorobenzene	*	2.0		47.3	50.00	0	94.6	72.1	113	09/29/2022
1,2-Dichloroethane	*	2.0		45.3	50.00	0	90.6	72.3	117	09/29/2022
1,2-Dichloropropane	*	2.0		53.9	50.00	0	107.7	76.5	119	09/29/2022
1,3,5-Trimethylbenzene	*	2.0		48.8	50.00	0	97.7	75.2	117	09/29/2022
1,3-Dichlorobenzene	*	2.0		49.2	50.00	0	98.5	75.2	115	09/29/2022
1,3-Dichloropropane	*	2.0		49.4	50.00	0	98.7	80.9	110	09/29/2022
1,4-Dichlorobenzene	*	2.0		48.6	50.00	0	97.1	73.9	112	09/29/2022
1-Chlorobutane	*	5.0		56.2	50.00	0	112.5	74.9	130	09/29/2022
2,2-Dichloropropane	*	2.0		49.6	50.00	0	99.2	66.5	138	09/29/2022
2-Butanone	*	10.0		124	125.0	0	99.5	68.8	134	09/29/2022
2-Chloroethyl vinyl ether	*	5.0		52.2	50.00	0	104.4	17.8	163	09/29/2022
2-Chlorotoluene	*	2.0		49.1	50.00	0	98.1	74.9	115	09/29/2022
2-Hexanone	*	10.0		116	125.0	0	92.6	73.2	117	09/29/2022
2-Nitropropane	*	10.0		436	500.0	0	87.2	67.1	140	09/29/2022
4-Chlorotoluene	*	2.0		48.7	50.00	0	97.4	75.7	113	09/29/2022
4-Methyl-2-pentanone	*	10.0		123	125.0	0	98.8	77	113	09/29/2022
Acetone	*	10.0		132	125.0	0	105.4	61.4	130	09/29/2022
Acetonitrile	*	10.0		597	500.0	0	119.3	68.8	136	09/29/2022
Acrolein	*	20.0		603	500.0	0	120.6	28.4	168	09/29/2022
Acrylonitrile	*	5.0		54.8	50.00	0	109.6	77.9	124	09/29/2022



Quality Control Results

<http://www.teklabinc.com/>

Client: Loureiro Engineering Associates, LLC

Work Order: 22091697

Client Project: Huster GWS

Report Date: 04-Oct-22

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch	198220	SampType:	LCS	Units	µg/L					
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Allyl chloride	*	5.0		57.1	50.00	0	114.3	75.8	130	09/29/2022
Benzene	*	0.5		55.4	50.00	0	110.8	78.5	119	09/29/2022
Bromobenzene	*	2.0		48.7	50.00	0	97.4	77.5	113	09/29/2022
Bromochloromethane	*	2.0		52.7	50.00	0	105.5	71.5	123	09/29/2022
Bromodichloromethane	*	2.0		50.6	50.00	0	101.1	75.7	123	09/29/2022
Bromoform	*	2.0		44.4	50.00	0	88.9	78.9	121	09/29/2022
Bromomethane	*	5.0		46.9	50.00	0	93.7	30.5	192	09/29/2022
Carbon disulfide	*	2.0		54.3	50.00	0	108.5	66.7	121	09/29/2022
Carbon tetrachloride	*	2.0		50.2	50.00	0	100.4	70.9	127	09/29/2022
Chlorobenzene	*	2.0		48.2	50.00	0	96.4	80	111	09/29/2022
Chloroethane	*	2.0		50.0	50.00	0	99.9	69.6	135	09/29/2022
Chloroform	*	2.0		50.9	50.00	0	101.8	76.2	120	09/29/2022
Chloromethane	*	5.0		44.2	50.00	0	88.3	50.9	138	09/29/2022
Chloroprene	*	5.0		51.0	50.00	0	102.0	68.4	127	09/29/2022
cis-1,2-Dichloroethene	*	2.0		56.3	50.00	0	112.5	79.5	121	09/29/2022
cis-1,3-Dichloropropene	*	2.0		54.3	50.00	0	108.6	79.8	123	09/29/2022
cis-1,4-Dichloro-2-butene	*	2.0		42.0	50.00	0	84.1	64.6	130	09/29/2022
Cyclohexanone	*	20.0		480	500.0	0	96.1	70.5	114	09/29/2022
Dibromochloromethane	*	2.0		47.0	50.00	0	94.1	84.5	114	09/29/2022
Dibromomethane	*	2.0		48.9	50.00	0	97.9	76	119	09/29/2022
Dichlorodifluoromethane	*	2.0		34.4	50.00	0	68.9	46.6	142	09/29/2022
Ethyl acetate	*	10.0		52.0	50.00	0	104.0	70.3	115	09/29/2022
Ethyl ether	*	5.0		52.3	50.00	0	104.7	74.6	120	09/29/2022
Ethyl methacrylate	*	5.0		48.0	50.00	0	96.0	81.4	116	09/29/2022
Ethylbenzene	*	2.0		49.6	50.00	0	99.3	78.2	114	09/29/2022
Hexachlorobutadiene	*	5.0		51.5	50.00	0	102.9	73.9	129	09/29/2022
Hexachloroethane	*	5.0		51.2	50.00	0	102.3	78.3	123	09/29/2022
Iodomethane	*	5.0		58.2	50.00	0	116.5	50	151	09/29/2022
Isopropylbenzene	*	2.0		49.5	50.00	0	99.1	79.3	115	09/29/2022
m,p-Xylenes	*	2.0		97.7	100.0	0	97.7	77.2	116	09/29/2022
Methacrylonitrile	*	5.0		53.1	50.00	0	106.1	73.9	127	09/29/2022
Methyl Methacrylate	*	5.0		51.1	50.00	0	102.1	70.7	129	09/29/2022
Methyl tert-butyl ether	*	2.0		51.3	50.00	0	102.6	80.3	122	09/29/2022
Methylacrylate	*	5.0		51.3	50.00	0	102.5	75.2	124	09/29/2022
Methylene chloride	*	2.0		50.4	50.00	0	100.8	71.8	115	09/29/2022
Naphthalene	*	5.0		49.6	50.00	0	99.1	75.6	121	09/29/2022



Quality Control Results

<http://www.teklabinc.com/>

Client: Loureiro Engineering Associates, LLC

Work Order: 22091697

Client Project: Huster GWS

Report Date: 04-Oct-22

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch	198220	SampType:	LCS	Units	µg/L						Date Analyzed
Analyses		Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	
n-Butyl acetate		*	2.0		47.1	50.00	0	94.2	72.4	118	09/29/2022
n-Butylbenzene		*	2.0		49.4	50.00	0	98.9	70.8	118	09/29/2022
n-Heptane		*	5.0		61.3	50.00	0	122.7	50.4	143	09/29/2022
n-Hexane		*	5.0		55.4	50.00	0	110.8	60.6	139	09/29/2022
Nitrobenzene		*	50.0		471	500.0	0	94.1	49.4	129	09/29/2022
n-Propylbenzene		*	2.0		50.1	50.00	0	100.1	74	119	09/29/2022
o-Xylene		*	2.0		48.8	50.00	0	97.5	79.2	112	09/29/2022
Pentachloroethane		*	5.0		48.4	50.00	0	96.7	71.8	124	09/29/2022
p-Isopropyltoluene		*	2.0		49.5	50.00	0	99.0	74.4	119	09/29/2022
Propionitrile		*	10.0		551	500.0	0	110.2	76.2	127	09/29/2022
sec-Butylbenzene		*	2.0		51.3	50.00	0	102.7	74.4	119	09/29/2022
Styrene		*	2.0		49.6	50.00	0	99.1	80.4	117	09/29/2022
tert-Butylbenzene		*	2.0		47.8	50.00	0	95.7	74	115	09/29/2022
Tetrachloroethene		*	0.5		48.7	50.00	0	97.4	70.1	120	09/29/2022
Tetrahydrofuran		*	5.0		49.1	50.00	0	98.2	63.5	122	09/29/2022
Toluene		*	2.0		49.8	50.00	0	99.5	78.6	112	09/29/2022
trans-1,2-Dichloroethene		*	2.0		52.8	50.00	0	105.6	75.7	130	09/29/2022
trans-1,3-Dichloropropene		*	2.0		48.3	50.00	0	96.6	80.3	116	09/29/2022
trans-1,4-Dichloro-2-butene		*	2.0		39.3	50.00	0	78.6	65.5	124	09/29/2022
Trichloroethene		*	2.0		52.4	50.00	0	104.8	76.2	121	09/29/2022
Trichlorofluoromethane		*	5.0		46.9	50.00	0	93.8	71.1	131	09/29/2022
Vinyl acetate		*	5.0		53.2	50.00	0	106.3	79.8	129	09/29/2022
Vinyl chloride		*	2.0		40.8	50.00	0	81.7	58.6	141	09/29/2022
Surr: 1,2-Dichloroethane-d4		*			43.0	50.00		86.0	80	120	09/29/2022
Surr: 4-Bromofluorobenzene		*			49.6	50.00		99.1	80	120	09/29/2022
Surr: Dibromofluoromethane		*			49.4	50.00		98.7	80	120	09/29/2022
Surr: Toluene-d8		*			48.1	50.00		96.1	80	120	09/29/2022



Quality Control Results

<http://www.teklabinc.com/>

Client: Loureiro Engineering Associates, LLC

Work Order: 22091697

Client Project: Huster GWS

Report Date: 04-Oct-22

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch	198220	SampType:	LCSD	Units	µg/L	RPD Limit 15.4					Date Analyzed
SampID: LCSD-AE220929A-1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
1,1,1,2-Tetrachloroethane	*	2.0		47.4	50.00	0	94.8	47.60	0.40		09/29/2022
1,1,1-Trichloroethane	*	2.0		49.6	50.00	0	99.1	50.16	1.22		09/29/2022
1,1,2,2-Tetrachloroethane	*	2.0		47.7	50.00	0	95.3	47.43	0.48		09/29/2022
1,1,2-Trichloro-1,2,2-trifluoroethane	*	5.0		51.0	50.00	0	102.0	52.57	3.07		09/29/2022
1,1,2-Trichloroethane	*	0.5		47.7	50.00	0	95.3	47.76	0.21		09/29/2022
1,1-Dichloro-2-propanone	*	30.0		109	125.0	0	87.5	105.0	4.08		09/29/2022
1,1-Dichloroethane	*	2.0		53.3	50.00	0	106.6	53.76	0.82		09/29/2022
1,1-Dichloroethene	*	2.0		50.7	50.00	0	101.5	51.57	1.64		09/29/2022
1,1-Dichloropropene	*	2.0		54.0	50.00	0	108.1	54.28	0.44		09/29/2022
1,2,3-Trichlorobenzene	*	2.0		50.4	50.00	0	100.8	50.17	0.44		09/29/2022
1,2,3-Trichloropropane	*	2.0		43.7	50.00	0	87.4	43.05	1.48		09/29/2022
1,2,3-Trimethylbenzene	*	2.0		48.3	50.00	0	96.5	48.40	0.29		09/29/2022
1,2,4-Trichlorobenzene	*	2.0		50.0	50.00	0	100.0	49.18	1.65		09/29/2022
1,2,4-Trimethylbenzene	*	2.0		48.7	50.00	0	97.4	48.69	0.00		09/29/2022
1,2-Dibromo-3-chloropropane	*	5.0		45.6	50.00	0	91.2	44.52	2.40		09/29/2022
1,2-Dibromoethane	*	2.0		47.4	50.00	0	94.7	47.44	0.15		09/29/2022
1,2-Dichlorobenzene	*	2.0		47.6	50.00	0	95.3	47.32	0.69		09/29/2022
1,2-Dichloroethane	*	2.0		45.0	50.00	0	90.1	45.31	0.60		09/29/2022
1,2-Dichloropropane	*	2.0		53.4	50.00	0	106.8	53.86	0.88		09/29/2022
1,3,5-Trimethylbenzene	*	2.0		48.4	50.00	0	96.7	48.83	0.95		09/29/2022
1,3-Dichlorobenzene	*	2.0		48.4	50.00	0	96.8	49.25	1.78		09/29/2022
1,3-Dichloropropane	*	2.0		49.1	50.00	0	98.2	49.36	0.53		09/29/2022
1,4-Dichlorobenzene	*	2.0		48.6	50.00	0	97.1	48.57	0.00		09/29/2022
1-Chlorobutane	*	5.0		55.3	50.00	0	110.5	56.25	1.76		09/29/2022
2,2-Dichloropropane	*	2.0		48.4	50.00	0	96.8	49.58	2.41		09/29/2022
2-Butanone	*	10.0		127	125.0	0	101.6	124.4	2.06		09/29/2022
2-Chloroethyl vinyl ether	*	5.0		52.7	50.00	0	105.4	52.20	0.97		09/29/2022
2-Chlorotoluene	*	2.0		48.8	50.00	0	97.6	49.07	0.51		09/29/2022
2-Hexanone	*	10.0		119	125.0	0	95.4	115.8	2.98		09/29/2022
2-Nitropropane	*	10.0		444	500.0	0	88.7	436.2	1.71		09/29/2022
4-Chlorotoluene	*	2.0		48.8	50.00	0	97.6	48.70	0.23		09/29/2022
4-Methyl-2-pentanone	*	10.0		125	125.0	0	100.3	123.5	1.48		09/29/2022
Acetone	*	10.0		128	125.0	0	102.5	131.7	2.75		09/29/2022
Acetonitrile	*	10.0		607	500.0	0	121.3	596.6	1.68		09/29/2022
Acrolein	*	20.0		627	500.0	0	125.4	603.1	3.87		09/29/2022
Acrylonitrile	*	5.0		55.6	50.00	0	111.2	54.81	1.41		09/29/2022



Quality Control Results

<http://www.teklabinc.com/>

Client: Loureiro Engineering Associates, LLC

Work Order: 22091697

Client Project: Huster GWS

Report Date: 04-Oct-22

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch	198220	SampType:	LCSD	Units	µg/L	RPD Limit 15.4					Date Analyzed
SampID: LCSD-AE220929A-1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Allyl chloride	*	5.0		55.2	50.00	0	110.4	57.14	3.42		09/29/2022
Benzene	*	0.5		54.3	50.00	0	108.7	55.40	1.93		09/29/2022
Bromobenzene	*	2.0		48.7	50.00	0	97.3	48.69	0.04		09/29/2022
Bromochloromethane	*	2.0		51.0	50.00	0	102.1	52.74	3.30		09/29/2022
Bromodichloromethane	*	2.0		50.7	50.00	0	101.4	50.55	0.32		09/29/2022
Bromoform	*	2.0		45.3	50.00	0	90.5	44.45	1.83		09/29/2022
Bromomethane	*	5.0		47.9	50.00	0	95.8	46.87	2.19		09/29/2022
Carbon disulfide	*	2.0		52.7	50.00	0	105.3	54.26	2.99		09/29/2022
Carbon tetrachloride	*	2.0		49.7	50.00	0	99.4	50.20	0.98		09/29/2022
Chlorobenzene	*	2.0		48.0	50.00	0	95.9	48.18	0.44		09/29/2022
Chloroethane	*	2.0		48.3	50.00	0	96.6	49.97	3.36		09/29/2022
Chloroform	*	2.0		50.2	50.00	0	100.3	50.90	1.48		09/29/2022
Chloromethane	*	5.0		44.5	50.00	0	88.9	44.15	0.72		09/29/2022
Chloroprene	*	5.0		50.1	50.00	0	100.2	50.99	1.74		09/29/2022
cis-1,2-Dichloroethene	*	2.0		56.0	50.00	0	112.0	56.27	0.50		09/29/2022
cis-1,3-Dichloropropene	*	2.0		54.0	50.00	0	107.9	54.29	0.59		09/29/2022
cis-1,4-Dichloro-2-butene	*	2.0		42.2	50.00	0	84.4	42.04	0.40		09/29/2022
Cyclohexanone	*	20.0		500	500.0	0	100.0	480.3	4.07		09/29/2022
Dibromochloromethane	*	2.0		47.3	50.00	0	94.6	47.05	0.51		09/29/2022
Dibromomethane	*	2.0		49.1	50.00	0	98.3	48.94	0.41		09/29/2022
Dichlorodifluoromethane	*	2.0		34.3	50.00	0	68.5	34.45	0.52		09/29/2022
Ethyl acetate	*	10.0		52.6	50.00	0	105.1	52.01	1.03		09/29/2022
Ethyl ether	*	5.0		53.0	50.00	0	106.0	52.33	1.29		09/29/2022
Ethyl methacrylate	*	5.0		48.8	50.00	0	97.6	48.02	1.57		09/29/2022
Ethylbenzene	*	2.0		48.6	50.00	0	97.2	49.65	2.18		09/29/2022
Hexachlorobutadiene	*	5.0		51.6	50.00	0	103.2	51.47	0.27		09/29/2022
Hexachloroethane	*	5.0		50.1	50.00	0	100.2	51.15	2.03		09/29/2022
Iodomethane	*	5.0		54.5	50.00	0	109.0	58.23	6.62		09/29/2022
Isopropylbenzene	*	2.0		48.9	50.00	0	97.8	49.53	1.32		09/29/2022
m,p-Xylenes	*	2.0		96.1	100.0	0	96.1	97.68	1.62		09/29/2022
Methacrylonitrile	*	5.0		54.9	50.00	0	109.8	53.06	3.37		09/29/2022
Methyl Methacrylate	*	5.0		52.2	50.00	0	104.4	51.07	2.23		09/29/2022
Methyl tert-butyl ether	*	2.0		51.2	50.00	0	102.4	51.30	0.16		09/29/2022
Methylacrylate	*	5.0		52.2	50.00	0	104.5	51.27	1.89		09/29/2022
Methylene chloride	*	2.0		50.5	50.00	0	101.0	50.42	0.14		09/29/2022
Naphthalene	*	5.0		50.9	50.00	0	101.8	49.56	2.63		09/29/2022



Quality Control Results

<http://www.teklabinc.com/>

Client: Loureiro Engineering Associates, LLC

Work Order: 22091697

Client Project: Huster GWS

Report Date: 04-Oct-22

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch	198220	SampType:	LCSD	Units $\mu\text{g/L}$		RPD Limit 15.4					Date Analyzed
SampID: LCSD-AE220929A-1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
n-Butyl acetate	*	2.0		47.8	50.00	0	95.6	47.09	1.48		09/29/2022
n-Butylbenzene	*	2.0		48.6	50.00	0	97.3	49.44	1.63		09/29/2022
n-Heptane	*	5.0		59.7	50.00	0	119.4	61.34	2.74		09/29/2022
n-Hexane	*	5.0		53.6	50.00	0	107.2	55.42	3.38		09/29/2022
Nitrobenzene	*	50.0		493	500.0	0	98.7	470.6	4.75		09/29/2022
n-Propylbenzene	*	2.0		49.4	50.00	0	98.8	50.06	1.29		09/29/2022
o-Xylene	*	2.0		48.1	50.00	0	96.2	48.77	1.38		09/29/2022
Pentachloroethane	*	5.0		48.8	50.00	0	97.6	48.35	0.97		09/29/2022
p-Isopropyltoluene	*	2.0		48.9	50.00	0	97.8	49.49	1.16		09/29/2022
Propionitrile	*	10.0		565	500.0	0	113.0	551.1	2.48		09/29/2022
sec-Butylbenzene	*	2.0		50.7	50.00	0	101.4	51.33	1.25		09/29/2022
Styrene	*	2.0		49.3	50.00	0	98.6	49.57	0.53		09/29/2022
tert-Butylbenzene	*	2.0		47.2	50.00	0	94.3	47.85	1.47		09/29/2022
Tetrachloroethene	*	0.5		47.7	50.00	0	95.3	48.70	2.14		09/29/2022
Tetrahydrofuran	*	5.0		51.8	50.00	0	103.6	49.11	5.33		09/29/2022
Toluene	*	2.0		48.8	50.00	0	97.6	49.77	1.99		09/29/2022
trans-1,2-Dichloroethene	*	2.0		52.1	50.00	0	104.2	52.78	1.26		09/29/2022
trans-1,3-Dichloropropene	*	2.0		48.2	50.00	0	96.3	48.29	0.25		09/29/2022
trans-1,4-Dichloro-2-butene	*	2.0		40.2	50.00	0	80.4	39.29	2.29		09/29/2022
Trichloroethene	*	2.0		52.7	50.00	0	105.4	52.41	0.55		09/29/2022
Trichlorofluoromethane	*	5.0		51.4	50.00	0	102.8	46.91	9.15		09/29/2022
Vinyl acetate	*	5.0		53.8	50.00	0	107.6	53.16	1.22		09/29/2022
Vinyl chloride	*	2.0		39.2	50.00	0	78.4	40.83	4.05		09/29/2022
Surr: 1,2-Dichloroethane-d4	*			43.0	50.00		86.1				09/29/2022
Surr: 4-Bromofluorobenzene	*			49.3	50.00		98.7				09/29/2022
Surr: Dibromofluoromethane	*			49.0	50.00		97.9				09/29/2022
Surr: Toluene-d8	*			47.6	50.00		95.2				09/29/2022

Batch	198220	SampType:	LCSG	Units %REC							Date Analyzed
SampID: LCSG-AE220929A-1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Surr: 1,2-Dichloroethane-d4	*			43.0	50.00		86.0	80	120		09/29/2022
Surr: 4-Bromofluorobenzene	*			49.5	50.00		99.1	80	120		09/29/2022
Surr: Dibromofluoromethane	*			49.2	50.00		98.4	80	120		09/29/2022
Surr: Toluene-d8	*			48.2	50.00		96.5	80	120		09/29/2022



Quality Control Results

<http://www.teklabinc.com/>

Client: Loureiro Engineering Associates, LLC

Work Order: 22091697

Client Project: Huster GWS

Report Date: 04-Oct-22

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch	198220	SampType:	LCSGD	Units	%REC	RPD Limit 0				Date Analyzed
SampID: LCSGD-AE220929A-1										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	
Surr: 1,2-Dichloroethane-d4	*			43.0	50.00		86.0			09/29/2022
Surr: 4-Bromofluorobenzene	*			49.8	50.00		99.5			09/29/2022
Surr: Dibromofluoromethane	*			48.9	50.00		97.7			09/29/2022
Surr: Toluene-d8	*			48.5	50.00		97.1			09/29/2022



Receiving Check List

<http://www.teklabinc.com/>

Client: Loureiro Engineering Associates, LLC

Work Order: 22091697

Client Project: Huster GWS

Report Date: 04-Oct-22

Carrier: Troy W Eppinger

Received By: PRY

Completed by:

On:

27-Sep-22

Ellie Hopkins
Ellie Hopkins

Reviewed by:

On:

28-Sep-22

Elizabeth A. Hurley

Elizabeth A. Hurley

Pages to follow: Chain of custody

Extra pages included

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>	Temp °C <input type="text" value="16.6"/>
Type of thermal preservation?	None <input type="checkbox"/>	Ice <input checked="" type="checkbox"/>	Blue Ice <input type="checkbox"/>	Dry Ice <input type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Reported field parameters measured:	Field <input type="checkbox"/>	Lab <input type="checkbox"/>	NA <input checked="" type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.				
Water – at least one vial per sample has zero headspace?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials <input type="checkbox"/>	
Water - TOX containers have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No TOX containers <input checked="" type="checkbox"/>	
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>	
NPDES/CWA TCN interferences checked/treated in the field?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>	

Any No responses must be detailed below or on the COC.

CHAIN OF CUSTODY

pg. 1 of 1 Work order #22091097

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

Client:	LOUREIRO (XDD)	Samples on: <input checked="" type="checkbox"/> ICE <input type="checkbox"/> BLUE ICE <input type="checkbox"/> NO ICE 66 °C
Address:	11171 FOREST HAVEN RD	LTG# 3
City / State / Zip	FESTUS MO 63028	Preserved in: <input checked="" type="checkbox"/> LAB <input type="checkbox"/> FIELD FOR LAB USE ONLY
Contact:	DEREK INGRAM Phone: 314-609-3065	Lab Notes OHS, Pkt 4/27/22
E-Mail:	INGRAM@XDD-IC.com	
Are these samples known to be involved in litigation? If yes, a surcharge will apply <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Are these samples known to be hazardous? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Are there any required reporting limits to be met on the requested analysis? If yes, please provide limits in the comment section. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

Project Name/Number		Sample Collector's Name		MATRIX	INDICATE ANALYSIS REQUESTED												
HUSTER GWS		Troy Eppinger			Aqueous	Groundwater	Special Waste	Sludge	Soil	Drinking Water							
<input checked="" type="checkbox"/> Standard <input type="checkbox"/> 1-2 Day (100% Surcharge) <input type="checkbox"/> Other <input type="checkbox"/> 3 Day (50% Surcharge)		Billing Instructions		# and Type of Containers													
Lab Use Only	Sample Identification	Date/Time Sampled	UNPRES	HNO3	NaOH	H2SO4	HCl	MeOH	NaHSO4	OTHER							
22091097 -001	MW-8	9-27-22 11:00									X	X					
-002	MW-13	" 11:40									X	X					
-003	MW-11	" 1220									X	X					
-004	MW-12	" 1300									X	X					
Relinquished By		Date/Time		Received By		Date/Time											
Troy Eppinger		9-27-22 15:30		B.P.		9/27/22 1530											
														Pkt 4/27/22			

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions.